



CONSOLIDATED COMMISSION ON UTILITIES

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

GUAM WATERWORKS AUTHORITY WORK SESSION

*CCU Conference Room
4:30 p.m., Tuesday, October 13, 2020*

AGENDA

1. **CALL TO ORDER**
2. **ISSUES FOR DECISION**
 - 2.1 [Relative to Approval of Memorandum of Agreement Between the Department of Public Works and the Guam Waterworks Authority for Permanent Road Repair Following GWA Emergency Repairs / Resolution No. 01-FY2021](#)
 - 2.2 [Relative to Approval of Construction Contract Change Order No. 5 for the Route 4 Relief Sewerline Rehabilitation Replacement Project S15-0006-EPA / Resolution No. 02-FY2021](#)
3. **GM REPORT**
 - 3.1 [GM Summary](#)
4. **ISSUES FOR DISCUSSION**
5. **OTHER DISCUSSION**
 - 5.1 CCU Rules Update
6. **DIVISION REPORTS**
 - 6.1 Communications
 - 6.2 Compliance & Safety
 - 6.3 Customer Service
 - 6.4 [Engineering](#)
 - 6.5 [Finance](#)
 - 6.6 [Operations](#)
7. **ANNOUNCEMENTS**
 - 7.1 Next CCU Meetings: GPA Work Session: October 15; CCU Regular Monthly Mtg.: October 20
8. **ADJOURNMENT**



Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution No. 01-FY2021

Relative to Approval of Memorandum of Agreement Between the Department of Public Works and the Guam Waterworks Authority for Permanent Road Repair Following GWA Emergency Repairs

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

The project's objective is to ensure that Guam's Paved Roads are properly restored to DPW standards in a timely manner following any GWA emergency repair work by providing the Authority with the option of utilizing DPW's in-house and contracted resources to make permanent road repairs on a task order basis at agreed-upon costs. This is an objective that GWA management has been working cooperatively with DPW to achieve over the last several years.

The proposed Memorandum of Agreement (MOA) is necessary because the Authority continuously makes repairs to its infrastructure located within paved rights-of-way, and has historically not performed permanent repairs well. In recent years, GWA has had to rely on small construction procurements to contract out permanent repairs, and although a larger Indefinite Quantity / Indefinite Delivery (ID/IQ) invitation for bid for such services has been attempted several times, there have been no bidders. GWA will revise its procurement documents and again attempt to bring its own contractor on-board as a further option to achieve this objective.

The proposed MOA is urgent because GWA faces increased pressure by village Mayors, the public, DPW's permitting section and federal highways officials to improve its performance in making permanent repairs to Guam's roadways, and the Authority needs all available options to improve its performance.

Where is the location?

All public roadways on Guam with GWA infrastructure that may require GWA repairs.

How much will it cost?

The work will be authorized on a work order / task order basis, with quantity estimates by GWA personnel at unit costs competitively procured by DPW (for contracted road repair services) and/or actual DPW costs for in-house resources, with allowance for appropriate administrative costs. The MOA will not be executed until unit costs are provided by DPW and found by GWA Management to be fair and reasonable.

When will it be completed?

MOA is for five (5) years

What is the funding source?

The funding shall be from revenues.

The RFP/BID responses (if applicable):

N/A



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GWA RESOLUTION NO. 01-FY2021

**RELATIVE TO APPROVAL OF MEMORANDUM OF AGREEMENT BETWEEN
THE DEPARTMENT OF PUBLIC WORKS AND THE GUAM WATERWORKS
AUTHORITY FOR PERMANENT ROAD REPAIR FOLLOWING
GUAM WATERWORKS AUTHORITY EMERGENCY REPAIRS**

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 makes hundreds of repairs each year to its infrastructure located within public rights-of-way and roadways under the jurisdiction of the Department of Public Works (“DPW”) which necessitate the permanent restoration/repair of damaged pavement within the roadways; and

WHEREAS, GWA has made roadway repairs in the past that do not meet DPW standards for pavement repair and restoration, and has relied in recent years on contractors engaged through small construction purchases to make permanent repairs, which is inefficient and cumbersome; and

WHEREAS, GWA has attempted to improve its road repair performance through the issuance of several construction procurements for an Indefinite Delivery/Indefinite Quantity (ID/IQ) bid for road repair services, all of which have been unsuccessful because no bids were submitted; and

1 **WHEREAS**, GWA will continue to utilize contracted services for road repairs, and will
2 improve its construction procurement in order to obtain an ID/IQ contractor as feasible resources
3 GWA can use to meet its obligations for repair work on Guam's Roads which meet DPW
4 standards; and

5
6 **WHEREAS**, after several years of discussion and coordination, and as an additional
7 resource available to GWA, the Authority and DPW desire to enter into a Memorandum of
8 Agreement ("MOA") (Exhibit "A") for permanent road repairs by DPW or its contractors
9 following GWA emergency water and wastewater repairs; and

10
11 **WHEREAS**, the initial term of this MOA shall be for a basic term of five (5) years.

12
13 **WHEREAS**, in certain instances GWA will request that DPW or its pavement repair
14 contractor perform restoration on Guam Paved Roads following utility repairs initiated by GWA
15 and that GWA will be responsible for paying DPW for such repairs provided for in the terms of
16 the MOA; and

17
18 **WHEREAS**, GWA shall engage DPW in such repairs by issuing Work Orders / Task
19 Orders with estimates for repair quantities and a defined scope of work authorized by GWA, and
20 verified by joint inspection upon completion of such repairs; and

21
22 **WHEREAS**, the funding source for this MOA will be from GWA revenues.

23
24 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
25 does hereby approve and authorize the following:

- 26
27 1. The recitals set forth above hereby constitute the findings of the CCU.
28 2. The CCU finds that the terms of the Memorandum of Agreement are fair and
29 reasonable.
30 3. The CCU hereby authorizes the management of GWA to negotiate fair and
31 reasonable costs for road repair services with DPW.
32

- 1 4. Upon Managements successful completion of cost negotiations, the CCU
2 authorizes Management to enter into the Memorandum of Agreement (Exhibit
3 “A”) for permanent road repairs following GWA emergency water and
4 wastewater repairs with DPW;
5 5. The CCU hereby approves the use of funding sources from GWA revenues for
6 this MOA.

7
8 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
9 of this Resolution.

10
11 **DULY AND REGULARLY ADOPTED**, this 20th day of October 2020.

12
13 Certified by:

Attested by:

14
15 _____
16 **JOSEPH T. DUENAS**
17 Chairperson

18 **MICHAEL T. LIMTIACO**
19 Secretary

20 **SECRETARY’S CERTIFICATE**

21
22 I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as
23 evidenced by my signature above do hereby certify as follows:

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

28 AYES: _____

29 NAYS: _____

30 ABSENT: _____

31 ABSTAIN: _____
32

EXHIBIT A

MEMORANDUM OF AGREEMENT

(PERMANENT ROAD REPAIR FOLLOWING GUAM WATERWORKS AUTHORITY
EMERGENCY REPAIRS)

THIS MEMORANDUM OF AGREEMENT (“MOA”) is hereby made by and between the **GOVERNMENT OF GUAM, DEPARTMENT OF PUBLIC WORKS** (hereinafter called “**DPW**”) whose business address is 542 North Marine Corps Drive, Tamuning, Guam 96913, and **GUAM WATERWORKS AUTHORITY** (hereinafter called “**GWA**”) whose business address is Gloria B. Nelson Public Service Building, 688 Route 15, Mangilao, Guam 96913 (hereafter collectively referred to as the “Parties” and individually, the “Party”).

WITNESSETH:

WHEREAS, DPW recently initiated a Highway and Village Pavement Repair project (hereinafter described as the “**DPW Project**”);

WHEREAS, the DPW Project will affect the utility facilities of the GWA which presently are located within the highway and village road right-of-way paved areas (collectively “**Guam’s Paved Roads**”);

WHEREAS, GWA has authority and obligation to install, operate and maintain utility infrastructure in all government easement’s and rights-of-way;

WHEREAS, DPW and GWA anticipate that GWA utility repairs will require restoration of Guam’s Paved Roads;

WHEREAS, in order that Guam’s Paved Roads are properly restored in a timely manner following any GWA work, the Parties desire that GWA and its pavement repair contractor or DPW and its pavement repair contractor perform all repairs related to GWA utility repairs in accordance with standards adopted by DPW: and

WHEREAS, in certain instances GWA will request that DPW or its pavement repair contractor perform restoration on Guam Paved Roads following utility repairs initiated by GWA and that GWA will be responsible for paying DPW for such repairs provided herein.

NOW, THEREFORE, in consideration of the agreements and undertakings set forth below and for other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the Parties agree as follows:

SECTION 1. SCOPE AND APPLICABILITY

1.1 Line Repair.

This MOA covers GWA line repair activities such as main breaks and leak repairs conducted by GWA personnel within public rights-of-way and easements. This MOA is not intended to apply to GWA

capital improvement / construction projects performed by GWA contractors or private developers for subsequent conveyance to GWA.

1.2 Line Replacement.

This MOA covers GWA line replacement when conducted in-house where GWA intends to repair its installed utility equipment and facilities. GWA shall submit to DPW detailed plans and specifications of the work which shall be sufficiently informative and complete to provide DPW with a clear description of the work required. The submittal shall include traffic control plans. GWA shall also submit to DPW a Utility Work Schedule, which shall note the times of the work and the method of performance for that work.

1.3 Non-Exclusivity.

GWA acknowledges that the use of easements and rights-of-way are non-exclusive, and DPW specifically reserves the right to grant, at any time, such additional permits, franchises or other rights for the use of any portion or all of the highways or public rights-of-way in Guam for any purpose and to any other person or entity, including itself, as it deems appropriate, subject to applicable Guam and federal law. At all times, GWA shall construct, repair and maintain its facilities so as not to interfere with other users/operators of the right-of-way. All construction and maintenance by GWA or its subcontractors shall be performed in accordance with prevailing industry standards.

SECTION 2. PERFORMANCE OF WORK

2.1 GWA Notice Prior to Excavation.

As required by 21 G.C.A. Section 71104, prior to any excavation or installation within the Guam's Paved Roads, highway or the public right-of-way, GWA shall provide sufficient notification of its intent to excavate to each user/operator having underground utilities in the proposed area of excavation. In the event of an emergency repair such as a main water or sewer break, GWA will notify DPW immediately following completion of their repair and securing of the site.

2.2 Coordination.

At all times, GWA shall coordinate its line repair or replacement activities with the DPW and other utilities and users of permitted areas in order to avoid any unnecessary cutting, damage or disturbance to the public right-of-way and other installed infrastructure.

2.3 Notices/Inspections.

GWA shall notify DPW's Highway Maintenance Section of the Division of Highways of the locations and extent of Guam's Paved Roads affected by GWA's line repair or replacement work, and the urgency of required repairs needed to Guam's Paved Roads, no later than two (2) weeks after the completion of the work performed by GWA. Excavation, restoration, reinstallation or repair of GWA's water and sewer lines, sewer manholes, valve covers, and related facilities in, under, on, through and along Guam's Paved Roads, for any lawful purpose shall be the sole responsibility and cost of GWA, its contractor or sub-contractor. Sink holes caused by GWA piping leaks will be assessed and, following a joint site visit, the scope of repairs will be agreed upon in writing.

2.4 Application of Cold Asphalt, Hot Asphalt, and Related Temporary Repair Work.

Following GWA's works described in Section 2.3 herein, GWA shall be responsible for the backfill and application of Cold Asphalt mix as temporary fill. GWA shall document the temporary repair

through a Task Order and provide the following information to DPW within forty-eight (48) hours of completion of the temporary repair:

1. GWA Work Order number and location information;
2. Photos or videos of the completed work along with any available GPS coordinates
3. Depth to repaired utility line;
4. Depth of sand bedding cover;
5. Depth and description of backfill, including manner of compaction;
6. Depth of cold mix, including manner of placement and compaction; and
7. Area and estimated volume of temporary repair.

2.5 Permanent Pavement Repair.

GWA may perform its own permanent repair only in accordance with DPW standards (Exhibit A) and upon 48-hours prior notice to DPW to allow DPW to inspect the repair work.

In the event GWA requests that permanent repairs be performed by DPW, its contractor or sub-contractor shall undertake and complete permanent repair in accordance with DPW standards as soon as practicable after receipt of GWA's information for each temporary repair. DPW shall provide a schedule of repair locations to GWA no less than twenty-four (24) hours prior to repair.

SECTION 3. TERM

3.1 Basic Term.

This MOA shall be for a basic term of five (5) years commencing on the effective date of this MOA and ending five (5) years later ("Basic Term"), or until said term is sooner terminated pursuant to any of the condition limitations or other provisions of this MOA. Notwithstanding any other language contained herein, either Party may terminate this MOA upon sixty (60) days prior notice to the other Party.

SECTION 4. PAYMENT

- 4.1** GWA shall be solely responsible for costs and expenses incurred by DPW in repairing or repaving of Guam's Paved Roads following GWA's excavation, restoration, installation or repair of utilities, for each GWA Task Order (TO) issued.

DPW's costs and expenses will be determined based on actual quantities for repair work and unit costs shown in Exhibit B, attached hereto.

- 4.2** DPW shall submit an invoice, signed by the Director of DPW to GWA for each permanent pavement repair within ten (10) working days of completion. Each invoice shall contain:
1. The date of performance;
 2. The GWA TO number;
 3. An itemized cost breakdown for repair work based on agreed-upon unit costs attached hereto as Exhibit B; and
 4. A listing of labor and equipment hours.
- 4.3** GWA shall remit payment to DPW within thirty (30) days of verification and approval of DPW invoice.

- 4.4 No payment shall be made for any work not authorized by GWA through the issuance of a GWA Task Order signed by the GWA General Manager.

SECTION 5. INDEMNITY

- 5.1 GWA shall indemnify and save harmless DPW from and against any and all liability, loss, damages, expenses, costs of action, suits, interests, fines, penalties, claims and judgments, arising from injury, or claim of injury, during the term of this MOA to any person or property of any and every nature, and from any matter or thing, growing out of the occupation, possession, use, management, improvement, construction, alteration, repair, maintenance, or control of GWA equipment or facilities.
- 5.2 This indemnification does not apply to any activity or work performed by DPW or its contractors pursuant to this MOA that results in injury or damages to GWA, its employees or any third parties.

SECTION 6. GOVERNING LAW

- 6.1 This MOA shall be governed by and construed in accordance with the laws of Guam and with federal laws as made applicable to Guam, and the courts of Guam shall have jurisdiction over all disputes arising hereunder.

SECTION 7. MISCELLANEOUS PROVISIONS

- 7.1 Time is of the essence concerning the provisions of this MOA.
- 7.2 If any provision herein shall be deemed by a court of competent jurisdiction to be invalid or unenforceable, then such provision shall be deemed stricken and this MOA shall be enforced according to its valid and subsisting terms and provisions.
- 7.3 The failure of either party to insist upon strict compliance with any term, provision, or condition of this MOA shall not be construed as a waiver of either party's rights and remedies under this MOA.
- 7.4 Any approval required herein by either DPW or GWA shall mean that the approval of the Director/General Manager or Acting Director/Acting General Manager of the respective Agency or Authority is required, unless another person is designated to issue particular or limited approvals on certain matters.
- 7.5 Any and all changes or modifications to this MOA shall be negotiated between DPW and GWA and shall be set forth in a writing duly executed by authorized representatives of the Parties.
- 7.6 The Parties hereto warrant that no person in their employment who has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 of the Guam Code Annotated, or of an offense defined in Article 2 of Chapter 28 of Title 9 of the Guam Code Annotated, or who has been convicted of an offense with the same elements as heretofore defined in any other jurisdiction, or who is listed on the Sex Offender Registry shall provide services on DPW property. If any employee of the Parties is providing services on DPW property and is convicted subsequent to this MOA, then the employing Party warrants that it will notify the other Party of the conviction within twenty-four (24) hours of

the conviction, and will remove immediately such convicted person from providing services on DPW property. If the Parties are found to be in violation of any of the provisions of this paragraph, then the violating Party shall take corrective action within twenty-four (24) hours' notice, and the violating Party shall notify the other Party when the corrective action has been taken.

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be executed by their duly authorized officers effective on the date of the last signature below.

DEPARTMENT OF PUBLIC WORKS

GUAM WATERWORKS AUTHORITY

VINCENT P. ARRIOLA
Director

MIGUEL C. BORDALLO, P.E.
General Manager

Date: _____

Date: _____

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Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution No. 02-FY2021

Relative to Approval of Change Order for the Route 4 Relief Sewerline Rehabilitation and Replacement Construction Contract with ProPacific Builder Corporation.

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

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

Change Order No. 5 is necessary to compensate the contractor for additional work to renovate Manhole 6908 where existing conditions did not match what was depicted on the drawings and thus additional work was required in the manhole to make it fully functional with the intent of the project and renovate it as per the design plans. The contractor has asked for additional compensation that the CM reviewed and negotiated to a fair and reasonable amount based on necessary work and assurance of no leaks.

Where is the project located?

This project is located at the intersection of Route 4 and Route 1. Construction activities will be limited to the government easements of the sewer infrastructure elements and within the road on Rt.4.

How much will it cost?

The total cost of Change Order No. 5 is Thirty Thousand Dollars (\$30,000.00). Change Order No. 3 increased to total authorized amount to Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,854,867.54). There is no remaining balance of the contingency funds. Hence, GWA Management seeks CCU approval of PPBC's proposal for additional compensation for unanticipated additional renovation of MH6908 in the additional funding amount of Thirty Thousand Dollars (\$30,000.00), to bring the total authorized funding amount to Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54). Change Order No.4 was a no cost change.

When will it be completed?

The additional construction work associated with the Change Order No. 5 was completed on October 5, 2020. The remainder of the project will be completed in October 2020.

What is the funding source?

The funding for this project will be from USEPA SRF Grant Funds and, if necessary, GWA Bond Funds with a maximum project budget of Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54).



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GWA RESOLUTION NO. 02-FY2021

**RELATIVE TO APPROVAL OF CONSTRUCTION CONTRACT
CHANGE ORDER NO. 5 FOR THE ROUTE 4 RELIEF SEWERLINE
REHABILITATION AND REPLACEMENT PROJECT S15-006-EPA**

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included over 4,200 linear feet of gravity sewer line along Route 4 and Route 1, from in front of Vons Chicken on Route 4 in Agana to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that need repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, on March 23, 2018, GWA advertised the Invitation to Re-bid (IFB-04-ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes subjected to I&I in the village of Agana; and

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1 **WHEREAS**, after receiving and reviewing bid proposals for the manhole rehabilitation
2 and sewerline replacement work on the Route 4 Relief Sewerline, it was determined that
3 ProPacific Builder Corporation (PPBC) was the lowest responsive and responsible bidder; and
4

5 **WHEREAS**, the CCU approved via Resolution 40-FY2018 (Exhibit A) funding
6 authorization for PPBC in the amount of Three Million Four Hundred Seven Thousand Eight
7 Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent (10%) contingency of Three
8 Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents (\$340,784.80) to
9 bring the authorized funding amount for Schedule A to a maximum of Three Million Seven
10 Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and Eighty Cents
11 (\$3,748,632.80); and
12

13 **WHEREAS**, in September 2018 GWA management executed a construction contract to
14 rehabilitate and replace portions of the Route 4 Relief Sewerline with PPBC; and
15

16 **WHEREAS**, the CCU approved via Resolution 16-FY2020 (Exhibit B) funding
17 authorization for PPBC for Change Orders No. 1 and No. 2 for an additional amount of Forty-
18 Seven Thousand Eight Hundred Fifty-Six Dollars and Seventy-Four Cents (\$47,856.74), to
19 increase PPBC's total contract value to the amount of Three Million Seven Hundred Ninety-Six
20 Thousand Four Hundred Eighty-Nine Dollars and Fifty-Four Cents (\$3,796,489.54); and
21

22 **WHEREAS**, the CCU approved via Resolution 35-FY2020 (Exhibit C) funding
23 authorization for PPBC for Change Order No.3 for an additional amount of Fifty-Eight Thousand
24 Three Hundred Seventy-Eight Dollars (\$58,378.00), to increase PPBC's total contract value to
25 the amount of Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven
26 Dollars and Fifty-Four Cents (\$3,854,867.54); and
27

28 **WHEREAS**, due to additional work required to renovate Manhole 6908 to enable
29 unrestricted flow through this manhole and hence the entire relief sewer line being rehabilitated
30 by this project, GWA negotiated Change Order No. 5 (Exhibit D), for additional compensation in
31 the amount of Thirty Thousand Dollars (\$30,000.00) plus a time extension of 24 days (which
32 includes 10 days due to COVID restrictions) to PPBC's contract; and

WHEREAS, the negotiated Change Order No.5 extends the estimated time to construction completion to October 13, 2020, and PPBC's total contract value to Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54); and

WHEREAS, the total cost of Change Order No. 5 in the amount of Thirty Thousand Dollars (\$30,000.00) will come from USEPA State Revolving Fund Grant Program and, if necessary, GWA Bond Funds; and

WHEREAS, GWA Management seeks CCU approval of PPBC's proposal for additional compensation in the additional funding amount of Thirty Thousand Dollars (\$30,000.00), to bring the total authorized funding amount to Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54); and

WHEREAS, funding for this project will be from the USEPA Title 2 Construction Grants Program, and, if necessary, GWA Bond funds with an estimated project budget of Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54); 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 authorizes the funding increase for additional construction services in the additional funding amount of Thirty Dollars (\$30,000.00) (Exhibit D).
3. The CCU hereby further authorizes the total funding authorization for the contract with PPBC to an amount of Three Million Eight Hundred Eighty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents (\$3,884,867.54).

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

3
4 **DULY AND REGULARLY ADOPTED**, this 20th day of October, 2020.

5
6 Certified by:

Attested by:

7
8 _____
9 **JOSEPH T. DUENAS**

10 Chairperson

11 **MICHAEL T. LIMTIACO**

12 Secretary

13 **SECRETARY'S CERTIFICATE**

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

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

20
21 AYES: _____

22 NAYS: _____

23 ABSENT: _____

24 ABSTAIN: _____

25 ///

26
27
28 ///

29
30
31 ///

Exhibit A



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

RESOLUTION NO. 40-FY2018

**RELATIVE TO CONTRACTS APPROVAL FOR THE ROUTE 4 RELIEF SEWER
LINE REHABILITATION AND REPLACEMENT
PROJECT S15-006-EPA**

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included over 4,200 linear feet of gravity sewer line along Route 4 from the bottom of the hill in Agana to Route 1, and along Route 1 to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that are in need of repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections along with associated roadway surface improvements; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary to provide sufficient capacity, and properly maintain and operate the sewer collection system, and the first step in doing so is through scope of services that includes general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and design; and

1 **WHEREAS**, in July 2015 GWA Management began the procurement process to find a
2 consulting engineering team to design the sewer rehabilitation and replacement, and via
3 Resolution No. 16-FY2016, approved by the CCU in January 2016, GWA Management was
4 authorized to enter into a contract with AECOM to design the sewer rehabilitation and
5 replacement; and

6
7 **WHEREAS**, in February of 2016 GWA Management entered into a contract with
8 AECOM to design the sewer rehabilitation and replacement, and in May of 2017 the final design
9 was completed; and

10
11 **WHEREAS**, on August 25, 2017, GWA advertised the Invitation to Bid (IFB-10-ENG-
12 2017) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals
13 from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines
14 and manholes subjected to I&I in the village of Hagatna, but ultimately GWA received no bids at
15 that time; and

16
17 **WHEREAS**, following the initial Invitation to Bid, GWA discussed with contractors the
18 challenges that may have prevented them from bidding, reviewed all the available information,
19 and split the contract into two separate parts, a Schedule A and a Schedule B; and

20
21 **WHEREAS**, on March 23, 2018, GWA advertised another Invitation to Bid (IFB-04-
22 ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid
23 proposals from experienced and responsive bidders to repair and/or replace segments of gravity
24 sewer lines and manholes subjected to I&I in the village of Hagatna; and

25
26 **WHEREAS**, this project consists of furnishing all labor, tools, equipment and materials,
27 necessary to install, replace, and repair sewer along Rt.4 and Rt.1, including coordination with
28 GWA Wastewater Operations, GWA Engineering, the Construction Manager, the project Design
29 Engineer, GWA's Program Management Office and the Department of Public Works; and

30
31 **WHEREAS**, IFB packages were obtained by multiple interested parties, from which
32 GWA received bid proposals from three (3) parties (SEE EXHIBIT A – Abstract of Bids) before

1 the bid proposal deadline, with one (1) party submitting a proposal for only Schedule A, one (1)
 2 party submitting a proposal for only Schedule B, and one (1) party submitting a proposal for both
 3 Schedule A and B; and

4
 5 **WHEREAS**, the project Design Engineer, in conjunction with GWA, analyzed the bid
 6 proposals received (SEE EXHIBIT B – Evaluation) on June 8, 2018 and determined that the bid
 7 proposal submitted by ProPacific Builder Corporation (PPBC) (SEE EXHIBIT C – ProPacific
 8 Bid) for Schedule A, and the bid proposal submitted by Insituform Technologies, LLC
 9 (Insituform) (SEE EXHIBIT D – Insituform Bid) for Schedule B, were the lowest responsive and
 10 responsible bids and met all the bid requirements set forth by GWA; and

11
 12 **WHEREAS**, GWA Management finds both PPBC’s bid proposal for Schedule A, and
 13 Insituform’s bid proposal for Schedule B acceptable; and

14
 15 **WHEREAS**, for Schedule A, PPBC’s bid proposal in the amount of Three Million Four
 16 Hundred Seven Thousand Eight Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent
 17 (10%) contingency of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and
 18 Eighty Cents (\$340,784.80) to bring the authorized funding amount for Schedule A to a total of
 19 Three Million Seven Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and
 20 Eighty Cents (\$3,748,632.80); and

21
 22 **WHEREAS**, for Schedule B, Insituform’s bid proposal in the amount of Three Million
 23 Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars (\$3,998,688.00), plus a
 24 ten percent (10%) contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-
 25 Eight Dollars and Eighty Cents (\$399,868.80) to bring the authorized funding amount for
 26 Schedule B to a total of Four Million Three Hundred Ninety-Eight Thousand Five Hundred
 27 Fifty-Six Dollars and Eighty Cents (\$4,398,556.80); and

28
 29 **WHEREAS**, GWA Management seeks CCU approval of PPBC’s bid proposal plus the
 30 10% contingency for Schedule A of Three Million Seven Hundred Forty-Eight Thousand Six
 31 Hundred Thirty-Two Dollars and Eighty Cents (\$3,748,632.80), and Insituform’s bid proposal
 32 plus contingency for Schedule B of Four Million Three Hundred Ninety-Eight Thousand Five

Hundred Fifty-Six Dollars and Eighty Cents (\$4,398,556.80), to bring the total authorized funding amount to Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents (\$8,147,189.60); and

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

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms and conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
3. The CCU hereby authorizes the management of GWA to accept the bid proposals from "ProPacific Builder Corporation" and "Insituform Technologies, LLC." (EXHIBITS C and D)
4. The CCU hereby further authorizes the management of GWA to enter into a contract with "ProPacific Builder Corporation" in the amount of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars (\$3,407,848.00).
5. The CCU hereby further authorizes the management of GWA to enter into a contract with "Insituform Technologies, LLC" in the amount of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars (\$3,998,688.00).
6. The CCU hereby further approves the funding total for Schedule A of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent (10%) contingency of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents (\$340,784.80), and for Schedule B of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars (\$3,998,688.00), plus a ten percent (10%) contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-Eight

Dollars and Eighty Cents (\$399,868.80), for a total authorized funding amount of Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents (\$8,147,189.60).

7. The CCU hereby further approves the funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and System Development Charge Funds applicable to the project.

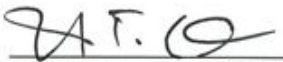
8. In the event funds other than SRF are used and they exceed One Million Dollars (\$1,000,000.00), GWA is authorized to petition the PUC for approval.


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

DULY AND REGULARLY ADOPTED, this 24th day of July 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:	<u>5</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>0</u>



Exhibit B



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. 16-FY2020

**RELATIVE TO APPROVAL OF CHANGE ORDER NO. 2 FOR THE
ROUTE 4 RELIEF SEWERLINE REHABILITATION
AND REPLACEMENT PROJECT S15-006-EPA**

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included over 4,200 linear feet of gravity sewer line along Route 4 and Route 1, from in front of Vons Chicken on Route 4 in Agana to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that need repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, on March 23, 2018, GWA advertised the Invitation to Re-bid (IFB-04-ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes subjected to I&I in the village of Agana; and

1 **WHEREAS**, after receiving and reviewing bid proposals for the manhole rehabilitation
2 and sewerline replacement work on the Route 4 Relief Sewerline, it was determined that
3 ProPacific Builder Corporation (PPBC) was the lowest responsive and responsible bidder; and
4

5 **WHEREAS**, the CCU approved via Resolution 40-FY2018 (Exhibit A) funding
6 authorization for PPBC in the amount of Three Million Four Hundred Seven Thousand Eight
7 Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent (10%) contingency of Three
8 Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents (\$340,784.80) to
9 bring the authorized funding amount for Schedule A to a maximum of Three Million Seven
10 Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and Eighty Cents
11 (\$3,748,632.80); and
12

13 **WHEREAS**, in September 2018 GWA management executed a construction contract
14 (Exhibit B) to rehabilitate and replace portions of the Route 4 Relief Sewerline with ProPacific
15 Builder Corporation; and
16

17 **WHEREAS**, while the Notice to Proceed for PPBC was issued in September 2018, the
18 start of construction was delayed due to complications with obtaining approvals during the
19 permitting process; and
20

21 **WHEREAS**, due to permitting delays, unanticipated time restrictions enforced on
22 construction work hours by DPW, and coordination challenges, GWA negotiated Change Order
23 No. 1 (Exhibit C), for a time extension of 193 days and additional funding to PPBC's contract in
24 the amount of Two Hundred Seventy-Six Thousand Seven Hundred Sixty Dollars and Nineteen
25 Cents (\$276,760.19);
26

27 **WHEREAS**, the negotiated Change Order No. 1 (Exhibit C) extends the estimated time
28 to construction completion to July 2020, and PPBC's total contract value to Three Million Six
29 Hundred Eighty-Four Thousand Six Hundred Eight Dollars and Nineteen Cents (\$3,684,608.19);
30 and
31
32

WHEREAS, during the ongoing construction, the second contractor, Insituform Technologies, LLC (Insituform), responsible for the Cured-In-Place-Pipe (CIPP) lining work that is part of the overall Route 4 sewerline improvements, discovered heavy infiltration in many of the manholes, which would prevent Insituform from completing the pipe lining work; and

WHEREAS, in order to prevent costly delays in lining operations due to the infiltration at the manholes, PPBC needed to accelerate manhole grouting work to resolve the infiltration; and

WHEREAS, GWA has negotiated with PPBC for a fee proposal for Change Order No. 2 to accelerate the work to resolve manhole infiltration and the removal of the concrete plug at SMH-6897 to prevent costly delays for lining operations; and

WHEREAS, the total cost of Change Order No. 2 comes out to the amount of One Hundred Eleven Thousand Eight Hundred Eighty-One Dollars and Thirty-Five Cents (\$111,881.35) (Exhibit D), of which Sixty-Four Thousand Twenty-Four Dollars and Sixty-One Cents (\$64,024.61) will come from the remaining contingency funds; and

WHEREAS, GWA Management seeks CCU approval of PPBC's proposal for accelerated construction services in the additional funding amount of Forty-Seven Thousand Eight Hundred Fifty-Six Dollars and Seventy-Four Cents (\$47,856.74), to bring the total authorized funding amount to Three Million Seven Hundred Ninety-Six Thousand Four Hundred Eighty-Nine Dollars and Fifty-Four Cents (\$3,796,489.54); and

WHEREAS, funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds with an estimated project budget of Three Million Seven Hundred Ninety-Six Thousand Four Hundred Eighty-Nine Dollars and Fifty-Four Cents (\$3,796,489.54); and

//

//

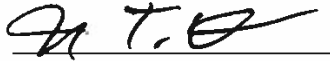
1 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
2 does hereby approve the following:

- 3 1. The recitals set forth above hereby constitute the findings of the CCU.
4 2. The CCU hereby approves the funding increase for accelerated construction
5 services in the additional funding amount of Forty-Seven Thousand Eight
6 Hundred Fifty-Six Dollars and Seventy-Four Cents (\$47,856.74) (Exhibit D).
7 3. The CCU hereby further approves the total funding authorization for the contract
8 with ProPacific Builder Corporation to an amount of Three Million Seven
9 Hundred Ninety-Six Thousand Four Hundred Eighty-Nine Dollars and Fifty-Four
10 Cents (\$3,796,489.54).

11
12 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
13 of this Resolution.

14
15 **DULY AND REGULARLY ADOPTED**, this 21st day of February, 2020.

16
17 Certified by:

18 
19 **JOSEPH T. DUENAS**
20 Chairperson

Attested by:

21 
22 **MICHAEL T. LIMTIACO**
23 Secretary

24 //

25 //

26 //

27 //

28 //

SECRETARY'S CERTIFICATE

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

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

AYES:	<u>5</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>0</u>



Exhibit C



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. 35-FY2020

**RELATIVE TO APPROVAL OF CONSTRUCTION CONTRACT
CHANGE ORDER NO. 3 FOR THE ROUTE 4 RELIEF SEWERLINE
REHABILITATION AND REPLACEMENT PROJECT S15-006-EPA**

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included over 4,200 linear feet of gravity sewer line along Route 4 and Route 1, from in front of Vons Chicken on Route 4 in Agana to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that need repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, on March 23, 2018, GWA advertised the Invitation to Re-bid (IFB-04-ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes subjected to I&I in the village of Agana; and

WHEREAS, after receiving and reviewing bid proposals for the manhole rehabilitation and sewerline replacement work on the Route 4 Relief Sewerline, it was determined that ProPacific Builder Corporation (PPBC) was the lowest responsive and responsible bidder; and

1 **WHEREAS**, the CCU approved via Resolution 40-FY2018 (Exhibit A) funding
2 authorization for PPBC in the amount of Three Million Four Hundred Seven Thousand Eight
3 Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent (10%) contingency of Three
4 Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents (\$340,784.80) to
5 bring the authorized funding amount for Schedule A to a maximum of Three Million Seven
6 Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and Eighty Cents
7 (\$3,748,632.80); and

8
9 **WHEREAS**, in September 2018 GWA management executed a construction contract to
10 rehabilitate and replace portions of the Route 4 Relief Sewerline with PPBC; and

11
12 **WHEREAS**, the CCU approved via Resolution 16-FY2020 (Exhibit B) funding
13 authorization for PPBC for Change Orders No. 1 and No. 2 for an additional amount of Forty-
14 Seven Thousand Eight Hundred Fifty-Six Dollars and Seventy-Four Cents (\$47,856.74), to
15 increase PPBC's total contract value to the amount of Three Million Seven Hundred Ninety-Six
16 Thousand Four Hundred Eighty-Nine Dollars and Fifty-Four Cents (\$3,796,489.54);

17
18 **WHEREAS**, due to additional work required to install the new sewer main under this
19 contract while contending with unknown underground utilities and utility encasements which
20 slowed PPBC's production rate and required hand digging due to space limitations, GWA
21 negotiated Change Order No. 3 (Exhibit C), for additional compensation in the amount of Fifty-
22 Eight Thousand Three Hundred Seventy-Eight Dollars (\$58,378.00) plus a time extension of
23 fifty-two (52) days to PPBC's contract; and

24
25 **WHEREAS**, the negotiated Change Order No. 3 extends the estimated time to
26 construction completion to September 2020, and PPBC's total contract value to Three Million
27 Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents
28 (\$3,854,867.54); and

29
30 **WHEREAS**, the total cost of Change Order No. 3 in the amount of Fifty-Eight Thousand
31 Three Hundred Seventy-Eight Dollars (\$58,378.00) will come from USEPA Title 2 Construction
32 Grants Program; and

1 **WHEREAS**, GWA Management seeks CCU approval of PPBC's proposal for additional
2 compensation in the additional funding amount of Fifty-Eight Thousand Three Hundred
3 Seventy-Eight Dollars (\$58,378.00), to bring the total authorized funding amount to Three
4 Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four
5 Cents (\$3,854,867.54); and
6

7 **WHEREAS**, funding for this project will be from the USEPA Title 2 Construction
8 Grants Program, and, if necessary, GWA Bond funds with an estimated project budget of Three
9 Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four
10 Cents (\$3,854,867.54); and
11

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

- 14 1. The recitals set forth above hereby constitute the findings of the CCU.
15 2. The CCU hereby approves the funding increase for accelerated construction
16 services in the additional funding amount of Fifty-Eight Thousand Three
17 Hundred Seventy-Eight Dollars and Zero Cents (\$58,378.00) (Exhibit C).
18 3. The CCU hereby further approves the total funding authorization for the
19 contract with PPBC to an amount of Three Million Eight Hundred Fifty-Four
20 Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents
21 (\$3,854,867.54).
22

23 **RESOLVED**, that the Chairman certified, and the Board Secretary attests to the adoption
24 of this Resolution.
25

26 **DULY AND REGULARLY ADOPTED**, this 3rd day of September 2020.
27

28 Certified by:

Attested by:

29
30 

31 **JOSEPH T. DUENAS**
32 Chairperson
33



31 **MICHAEL T. LIMTIACO**
32 Secretary

SECRETARY'S CERTIFICATE

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

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

AYES:	<u>5</u>
NAYS:	<u>Ø</u>
ABSENT:	<u>Ø</u>
ABSTAIN:	<u>Ø</u>

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Exhibit D

**CHANGE ORDER NO. 5**

Project No. & Title:	Route 4 Relief Sewerline Rehabilitation and Replacement		
	GWA Project No. S15-006-EPA		
Contractor's Name:	ProPacific Builders Corporation	Original Contract Date:	September 13, 2018

TO: ProPacific Builders Corporation

You are directed to make changes noted below in the subject contract. The changes are accepted by:

Contractor Representative (Print Name & Title)

PREPARED BY:

John Riegel P.E.

Date

Managing Engineer

Signature

Date

G.L. NO. S202.105321.420000

Contract No.: 795 OS

Vendor No.: 26731

Amount: \$30,000.00

Barbara Cruz

Date

Acting Chief Engineer

Nature of Changes:

This Change Order adds bid items for removing the channeling and benching concrete in MH6908. This work is in addition to what is depicted in the plans and is considered additional work. The contractor's price proposal has been negotiated and is considered reasonable for the scope of work. The CM concurs with the proposal. The additional cost is listed in the attached proposal from the contractor. Injection grouting (item #2) will only be done IF leaks are evident after removing the mass of concrete. If there are no leaks needing injection grouting, this work will not be performed or paid for and the contractor shall provide the materials (the first 3 items of #2) to GWA.

This Change Order adds work items listed in the attached proposal from PPBC.

This Change Order adds 14 days for the additional work in MH6908 PLUS adds 10 days due to the COVID Executive Order prohibiting construction in August.

The total additional cost is \$30,000 and the additional contract time is 24 days.

Enclosures:

- 1) ProPacific's Change Order Proposal for MH6908 and COVID lockdown
- 2) EMPSCO recommendation for Change Order No.5 with evaluation

The changes result in the following adjustment of contract price and time:

Contract price prior to this change order	<u>\$3,854,867.54</u>
Net cost change from this Change Order (subject to approved terms & conditions)	<u>\$30,000.00</u>
Current contract price including this Change Order	<u>\$3,884,867.54</u>
Contract time prior to this Change Order <u>725</u> calendar days	
Net increase resulting this Change Order <u>24</u> calendar days	
Current contract time including this Change Order <u>749</u> calendar days	

CERTIFIED FUNDS AVAILABLE:

Taling M. Taitano

Chief Financial Officer, GWA

Date:

APPROVED:

Miguel C. Bordallo, PE

General Manager

Date:

(Name & Title)
Finance/Accounting

Date:

Exhibit D



CHANGE ORDER NO. 5

Project No. & Title: Route 4 Relief Sewerline Rehabilitation and Replacement
 GWA Project No. S15-006-EPA
 Contractor's Name: ProPacific Builders Corporation Original Contract Date: September 13, 2018

TO: ProPacific Builders Corporation

You are directed to make changes noted below in the subject contract. The changes are accepted by:

Jean Yeon Yu, President
 Contractor Representative (Print Name & Title)
[Signature] 9/11/2020
 Signature Date

PREPARED BY: [Signature] 9/11/2020
 John Riegel P.E. Date
 Managing Engineer

G.I. NO. S202.105321.420000
 Contract No.: 795 OS
 Vendor No.: 28731
 Amount: \$30,000.00

Barbara Cruz Date
 Acting Chief Engineer

Nature of Changes:

This Change Order adds bid items for removing the channeling and benching concrete in MH6908. This work is in addition to what is depicted in the plans and is considered additional work. The contractor's price proposal has been negotiated and is considered reasonable for the scope of work. The CM concurs with the proposal. The additional cost is listed in the attached proposal from the contractor. Injection grouting (Item #2) will only be done IF leaks are evident after removing the mass of concrete. If there are no leaks needing injection grouting, this work will not be performed or paid for and the contractor shall provide the materials (the first 3 items of #2) to GWA. This Change Order adds work items listed in the attached proposal from PPBC. This Change Order adds 14 days for the additional work in MH6908 PLUS adds 10 days due to the COVID Executive Order prohibiting construction in August.

The total additional cost is \$30,000 and the additional contract time is 24 days.

Enclosures:

- 1) ProPacific's Change Order Proposal for MH6908 and COVID lockdown
- 2) EMPSCO recommendation for Change Order No.5 with evaluation

The changes result in the following adjustment of contract price and time:

Contract price prior to this change order	<u>\$3,854,867.54</u>
Net cost change from this Change Order (subject to approved terms & conditions)	<u>\$30,000.00</u>
Current contract price including this Change Order	<u>\$3,884,867.54</u>
Contract time prior to this Change Order <u>725</u> calendar days	
Net increase resulting this Change Order <u>24</u> calendar days	
Current contract time including this Change Order <u>749</u> calendar days	

CERTIFIED FUNDS AVAILABLE:

Taling M. Taitano
 Chief Financial Officer, GWA

Date: _____

APPROVED:

Miguel C. Bordello, PE
 General Manager

Date: _____

(Name & Title) Finance/Accounting
Date: _____

Exhibit D - CO#5 Proposal



PROPACIFIC BUILDER CORPORATION

(formerly Guam Yooshin Corporation)
750 Route 8 Suite 202 Hanam Plaza,
Barrigada, Guam 96913
T. 671.477.3109 | F. 671.477.7424 | lgyc@guam.net

Date: Sept. 9, 2020

To: John Riegel, PE
Senior Program Manager
Brown & Caldwell

Thru: Tyrone De Guzman, PE
Project Manager
EMPSCO Engineering Consultants

Subject: **S15-006-EPA (Schedule A)
Route 4 Relief Sewerline Rehabilitation and Replacement**

Reference: **CHANGE ORDER PROPOSAL TO CORRECT SMH-6908 INVERT and LOST TIME
DUE COVID 19 LOCKDOWN.**

Dear Mr. Riegel,

A. We are requesting a total of 14 calendar days to include procurement & delivery of off-island materials and a cost of \$ 30,000.00 to be added to the contract for the correction of the existing invert of SMH-6908 as directed following the review and recommendation of AECOM and EMPSCO. Works are as follows:

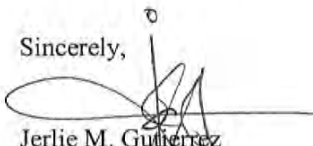
- Remove the existing channeling concrete to open the flow channel across the manhole from the 30" inlet to the 30" outlet. Remove the existing channeling that is interfering with flow from the 30" pipe.
- Procure and deliver thru airfreight of the off-island materials needed for this task to save time since the project is in it final weeks of performance time.

B. We also request time for the lost 10 calendar days caused by total lockdown ordered by the governor which starts in the noon of August 21 and lasted to 12PM of August 29. Although restrictions was lifted on essential businesses on August 29, the August 30 falls on Sunday. The earliest we can resume work is Monday, August 31.


In summary, we are requesting a total of **24 calendar days** and an amount of **\$ 30,000.00** as a change order. Attached herewith is the detailed calculation. We trust that the above proposal meets your favorable approval regarding the above request. Please do not hesitate to get in touch with us if you wish to discuss this further.

Thank you very much.

Sincerely,


Jerlie M. Gutierrez
Project Manager
ProPacific Builders Corp.

Noted:


Jean Yeon Yu
President
ProPacific Builder Corporation

Route 4 Relief Sewer Line Rehabilitation And Replacement

GWA Project No#. S15-006-EPA

CHANGE ORDER PROPOSAL TO CORRECT EXISTING SMH-6908 INVERT

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL COST
1.0	Cleaning & disinfecting of SMH bottom portion.	LS	1.00	800.00	800.00
2.0	Grout injection of SMH bottom portion.				
	Fibrotite Rope (1 small box)	BOX	1.00	230.00	230.00
	Injection Ports	EA	15.00	7.01	105.15
	Avanti Injection Grouts (5 gallon pail)	PAIL	3.00	2,265.00	6,795.00
	Air freight cost of Grout injection materials.	EA	3.00	200.00	600.00
	High-grade Acetone for cleaning of injection pump after each use.	GAL	5.00	96.00	480.00
	Service vehicles, grout injection pump, & other tools.	LS	1.00	1,500.00	1,500.00
	Labor - 3 guys (w/ 1 Certified Installer & 1 Confined Spaced Competent Person)	LS	1.00	539.00	539.00
3.0	Demolition of hump				
	Labor - 3 guys (w/ 1 Confined Spaced Competent Person)	LS	1.00	3,000.00	3,000.00
	Service vehicles, chipping guns, power generator, & other tools.	LS	1.00	1,500.00	1,500.00
	Disposal of contaminated debris	LS	1.00	700.00	700.00
		SUB-TOTAL			16,249.15
		Overhead & Profit (15%)			2,437.37
		SUB-TOTAL			18,686.50
		GRT(5.21%)			973.50
		TOTAL			19,660.00
4.0	Traffic Control.	EA	1.00	4,000.00	4,000.00
5.0	By-pass and temporary plugs to isolate SMH-6908.	EA	1.00	4,000.00	4,000.00
6.0	Safety				
	Confined space equipments, retrieval, & air monitoring equipment.	LS	1.00	1,000.00	1,000.00
	Supply/exhaust fans w/ flexible hose, lightings, and power generator.	LS	1.00	500.00	500.00
	Miscellaneous disposable safety materials				
	Tyvek suits				
	Rubber gloves & hand gloves.	LS	1.00	40.00	40.00
	Face-mask with multi-gas cartridge & respirators.	SET	4.00	200.00	800.00
TOTAL COST					30,000.00
Please add 14 calendar days which include procurement & airfreight of materials to complete this task.					

Exhibit D - CO#5 CM Review Recommendation



ENGINEERING MANAGEMENT & PLANNING SERVICES CORPORATION

1998 ARMY DRIVE, ROUTE 16, 2/F EMPSCO BLDG., DEDEDO, GUAM 96929 □ PO BOX 21794 GMF, BARRIGADA, GU 96921 □ TEL (671) 6384716 /6385716 □ FAX (671) 6382136

September 11, 2020

Thomas F. Cruz, P.E.
Chief Engineer
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15 Mangilao, Guam 96913

Attention: **John Riegel, P.E.**
Senior Manager
Brown & Caldwell

**Subject: GWA Project No. S15-006-EPA, Route 4 Relief Sewer line Rehabilitation and Replacement_(Schedule A)
Construction Manager Recommendation for Approval of Change Order No. 5**

Reference: ProPacific Builder Corp. – Change Order Proposal no. 06_Change order Proposal to correct SMH-6908 invert and Lost time due to COVID-19 Lockdown.

Gentlemen,

Reference is made to the ProPacific Change order proposal reference as above.

We are endorsing our recommendation for the approval of Change Order no. 5 in the amount of **Thirty Thousand and 00/100 (\$30,000.00)** for the additional cost the Contractor incurs on the project due to correction of the existing invert of SMH-6908 as directed by Brown&Caldwell following the review and recommendation of AECOM (DOR):

The following scope are the following:

- a. Remove the existing channeling concrete to open the flow channel across the manhole from the 30 inches outlet.
- b. Remove the existing channeling that is interfering with the flow from the 30" pipe.
- c. Procure and deliver thru air freight of the off-island materials needed for this task to save time since the project is in its final week of the performance date.

Also, Due to Executive order 2020-28 issued by the Governor, Additional PCOR 1 Measure Implemented effective noon of August 21, 2020, that all businesses other than those designated as "Critical Businesses" under applicable DPHSS guidelines, shall be temporarily closed for one week. The restriction was lifted and allowed Construction to resume by noon on August 29, 2020. The earliest date the Contractor can resume is Monday, August 31, 2020. There are 10 calendar days lost due to this Executive order.

EMPSCO has completed price negotiation PCO no. 6 with ProPacific on September 9, 2020. The original change order cost and time proposal were \$ 38,010.32 with fourteen (14) calendar days. EMPSCO negotiated with ProPacific to lower the original cost based on our actual work and cost



evaluation. Based on our determination, we find the negotiated total amount of **\$30,000.00** with an additional **twenty-four (24) calendar days** including the loss of days due to Executive order 2020-28 as fair and reasonable and in the best interest of GWA.

Should you have any questions and concerns, please do not hesitate to contact or email our office.

Very Truly,

EMPSCO Engineering Consultants



Tyrone de Guzman, P.E.

Project Manager

Email: tyrone.deguzman@empSCO.net

Enclosure:

- a. Contract Change Notice
- b. PPBC letter and negotiated breakdown of Cost
- c. EMPSCO negotiation for PCO no. 6
- d. Original ProPacific Builder Corp. – PCO no. 6

CONTRACT CHANGE NOTICE

Proposed Change (P/C) No:

06

Date:

9/11/2020

1. Contract/Title:

GWA Project No. S15-006-EPA, Route 4 Relief Sewer Line Rehabilitation and Replacement

2. Description

ProPacific Builder Corp. Proposed Change order no. 6 – To correct SMH-6908 invert and Lost Time due to COVID-19 Lockdown

Est. Amt**:

\$

30,000

Est. Time Ext.:

24

MOD Code:

3. Written Customer Request Date:

09/09/2020

4. Reason/justification:

The scope of work for the correction of the existing invert of SMH-6908 as directed by Brown&Caldwell following the review and recommendation of AECOM (DOR).

- Remove the existing channeling concrete to open the flow channel across the manhole from the 30" outlet.
- Remove the existing channeling that is interfering with the flow from the 30" pipe.
- Procure and deliver thru air freight of the off-island materials needed for this task to save time since the project is in its final week of the performance date

Executive order 2020-28 reference to JIC Release no. 278.

Due to Executive order 2020-28 issued by the Governor, Additional PCOR 1 Measure Implemented effective noon of August 21, 2020, that all businesses other than those designated as "Critical Businesses" under applicable DPHSS guidelines, shall be temporarily closed for one week. Restriction was lifted and allowed Construction to resume by noon August 29, 2020. The earliest date the Contractor can resume is Monday, August 31, 2020. There is 10 calendar days lost due to this Executive order.

5. Is Mod within Scope?:

Yes

☒

No

☐

If "No" refer for further processing



PROPACIFIC BUILDER CORPORATION

(formerly Guam Yooshin Corporation)
750 Route 8 Suite 202 Hanam Plaza,
Barrigada, Guam 96913

T. 671.477.3109 | F. 671.477.7424 | lgyc@guam.net

Date: Sept. 9, 2020

To: John Riegel, PE
Senior Program Manager
Brown & Caldwell

Thru: Tyrone De Guzman, PE
Project Manager
EMPSCO Engineering Consultants

Subject: **S15-006-EPA (Schedule A)**
Route 4 Relief Sewerline Rehabilitation and Replacement

Reference: **CHANGE ORDER PROPOSAL TO CORRECT SMH-6908 INVERT and LOST TIME**
DUE COVID 19 LOCKDOWN.

Dear Mr. Riegel,

A. We are requesting a total of 14 calendar days to include procurement & delivery of off-island materials and a cost of \$ 30,000.00 to be added to the contract for the correction of the existing invert of SMH-6908 as directed following the review and recommendation of AECOM and EMPSCO. Works are as follows:

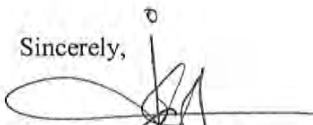
- Remove the existing channeling concrete to open the flow channel across the manhole from the 30" inlet to the 30" outlet. Remove the existing channeling that is interfering with flow from the 30" pipe.
- Procure and deliver thru airfreight of the off-island materials needed for this task to save time since the project is in its final weeks of performance time.

B. We also request time for the lost 10 calendar days caused by total lockdown ordered by the governor which starts in the noon of August 21 and lasted to 12PM of August 29. Although restrictions were lifted on essential businesses on August 29, the August 30 falls on Sunday. The earliest we can resume work is Monday, August 31.


In summary, we are requesting a total of **24 calendar days** and an amount of **\$ 30,000.00** as a change order. Attached herewith is the detailed calculation. We trust that the above proposal meets your favorable approval regarding the above request. Please do not hesitate to get in touch with us if you wish to discuss this further.

Thank you very much.

Sincerely,


Jerlie M. Gutierrez
Project Manager
ProPacific Builders Corp.

Noted:


Jean Yeon Yu
President
ProPacific Builder Corporation

Route 4 Relief Sewer Line Rehabilitation And Replacement

GWA Project No#. S15-006-EPA

CHANGE ORDER PROPOSAL TO CORRECT EXISTING SMH-6908 INVERT

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL COST
1.0	Cleaning & disinfecting of SMH bottom portion.	LS	1.00	800.00	800.00
2.0	Grout injection of SMH bottom portion.				
	Fibrotite Rope (1 small box)	BOX	1.00	230.00	230.00
	Injection Ports	EA	15.00	7.01	105.15
	Avanti Injection Grouts (5 gallon pail)	PAIL	3.00	2,265.00	6,795.00
	Air freight cost of Grout injection materials.	EA	3.00	200.00	600.00
	High-grade Acetone for cleaning of injection pump after each use.	GAL	5.00	96.00	480.00
	Service vehicles, grout injection pump, & other tools.	LS	1.00	1,500.00	1,500.00
	Labor - 3 guys (w/ 1 Certified Installer & 1 Confined Spaced Competent Person)	LS	1.00	539.00	539.00
3.0	Demolition of hump				
	Labor - 3 guys (w/ 1 Confined Spaced Competent Person)	LS	1.00	3,000.00	3,000.00
	Service vehicles, chipping guns, power generator, & other tools.	LS	1.00	1,500.00	1,500.00
	Disposal of contaminated debris	LS	1.00	700.00	700.00
		SUB-TOTAL			16,249.15
		Overhead & Profit (15%)			2,437.37
		SUB-TOTAL			18,686.50
		GRT(5.21%)			973.50
		TOTAL			19,660.00
4.0	Traffic Control.	EA	1.00	4,000.00	4,000.00
5.0	By-pass and temporary plugs to isolate SMH-6908.	EA	1.00	4,000.00	4,000.00
6.0	Safety				
	Confined space equipments, retrieval, & air monitoring equipment.	LS	1.00	1,000.00	1,000.00
	Supply/exhaust fans w/ flexible hose, lightings, and power generator.	LS	1.00	500.00	500.00
	Miscellaneous disposable safety materials				
	Tyvek suits				
	Rubber gloves & hand gloves.	LS	1.00	40.00	40.00
	Face-mask with multi-gas cartridge & respirators.	SET	4.00	200.00	800.00
TOTAL COST					30,000.00
Please add 14 calendar days which include procurement & airfreight of materials to complete this task.					

EMPSCO's negotiation for PCO no. 6

Attachment "A"

Route 4 Relief Sewer Line Rehabilitation And Replacement
GWA Project No#. S15-006-EPA

NOTE: See page 2, for
justification of review comments
per item.

CHANGE ORDER PROPOSAL TO CORRECT EXISTING SMH-6908 INVERT

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL COST
1.0	Cleaning & disinfecting of SMH bottom portion.	LS	1.00	800.00	800.00 \$303.00
2.0	Grout injection of SMH bottom portion.				
	Fibrotite Rope (1 small box)	BOX	1.00	230.00	230.00
	Injection Ports	EA	15.00	7.05	105.75
	Avanti Injection Grouts (5 gallon pail)	PAIL	3.00	2,265.00	6,795.00
	Air freight cost of Grout injection materials.	EA	3.00	200.00	600.00
	High-grade Acetone for cleaning of injection pump after each use.	GAL	5.00	96.00	480.00
	Service vehicles, grout injection pump, & other tools.	LS	1.00	1,500.00	1,500.00
	Labor - 3 guys (w/ 1 Certified Installer & 1 Confined Spaced Competent Person)	LS	1.00	3,600.00	3,600.00 \$512.00
3.0	Demolition of hump				
	Labor - 3 guys (w/ 1 Confined Spaced Competent Person)	LS	1.00	3,600.00	3,600.00 \$2,800.00
	Service vehicles, chipping guns, power generator, & other tools.	LS	1.00	1,500.00	1,500.00
	Disposal of contaminated debris	LS	1.00	700.00	700.00
				SUB-TOTAL	10,010.00 \$15,525.75
				Overhead & Profit (15%)	2,000.00 \$2,328.86
				SUB-TOTAL	22,000.00 \$17,854.61
				GRT(5.21%)	1,102.00 \$ 930.23
				TOTAL	24,000.00 \$18,784.84
4.0	Traffic Control.	EA	1.00	4,000.00	4,000.00
5.0	By-pass and temporary plugs to isolate SMH-6908.	EA	1.00	7,200.00	7,200.00
6.0	Safety				
	Confined space equipments, retrieval, & air monitoring equipment.	LS	1.00	1,200.00	1,200.00
	Supply/exhaust fans w/ flexible hose, lightings, and power generator.	LS	1.00	600.00	600.00
	Miscellaneous disposable safety materials				
	Tyvek suits	LS	1.00	80.00	80.00
	Rubber gloves & hand gloves.	LS	1.00	40.00	40.00
	Face-mask with multi-gas cartridge & respirators.	SET	4.00	200.00	800.00
TOTAL COST					38,010.00 \$32,704.84
Please add 14 calendar days which include procurement & airfreight of materials to complete this task.					



ENGINEERING MANAGEMENT & PLANNING SERVICES CORPORATION

1998 Army Drive Route 16, 2/F EMPSCO Bldg., Dededo, Guam 96929 • P.O. Box 21794 GMF, Barrigada, Guam 96921 • Tel No. 1.671.638.4716/5716 • Fax No. 1.671. 638.2136 • Email:empsco@guam.net

09 September 2020

**Project: Route 4 Relief Sewer Line Rehabilitation and Replacement
GWA Project No. S15-006-EPA**

Reference: ProPacific Change order Proposal to Correct existing SMH-6908 invert

Review Comments:

1. Item no. 1: Cleaning and Disinfecting of SMH bottom portion

Comment: Cleaning shall be 2 hrs maximum to clean and disinfect the manhole at the bottom portion. The following are the estimate labor and equipment cost:

Equipment:

- a. Water blaster, 3,000 psi = \$110.00
- b. Submersible pump, 2" diameter, ½ hp = \$53.00

Labor:

- a. Superintendent = \$23.00 x 2 hrs = \$46.00
- b. Laborer = \$15.00 x 2 hrs = \$30.00
- c. Laborer, manhole attendees at top = \$ 18.00 x 2 hrs = \$36.00
- d. Helper = \$14.00 x 2 hrs = \$28.00

Total cost = \$303.00

2. Item no. 2: Grout injection of the SMH portion.

Comment: As a preventive-measures, The Contractor shall provide grout injections at areas of 30" pipe and 24" pipe, upstream and downstream before demolition of manhole floor humps. All material unit cost was based on the schedule of values and previously approved change order. The Labor unit cost is High. The following are the estimate based on 1day max. work:

Labor:

- a. Superintendent = \$23.00 x 8 hrs = \$184.00
- b. Certified grout injector/installer = \$23.00 x 8 hrs = \$184.00
- c. Laborer, certified confined competent person = \$18.00 x 8 hrs = \$144.00

Total cost = \$ 512.00

3. Item no. 3: Demolition of Hump

Comment: The Labor unit cost is High. The following are the estimate based on 5days work:

Labor:

- a. Superintendent = \$23.00 x 40 hrs = \$920.00
- b. Laborer, certified confined competent person = \$18.00 x 40 hrs = \$720.00
- c. Laborer = \$15.00 x 40 hrs = \$600.00
- d. Helper = \$14.00 x 40 hrs = \$560.00

Total cost = \$ 2,800.00



4. Item no. 4: Traffic Control

Comment: Unit cost of line item was based on the schedule of values and previously approved change orders.

5. Item no. 5: By-Pass and temporary plug to isolate SMH-6908

Comment: Unit cost of line item was based on the schedule of values and previously approved change orders.

6. Item no. 6: Safety

Comment: Unit cost of line item was based on the schedule of values and previously approved change orders.

Review Comments by:

Tyrone de Guzman, P.E.
EMPSCO Engineering Consultants
Construction Management

cc: Brown and Caldwell

Tyrone De Guzman

From: Jerlie M. Gutierrez <rgyc@guam.net>
Sent: Wednesday, September 9, 2020 4:10 PM
To: Tyrone De Guzman; Noel Viaje
Cc: 'Vicente Escabillas'; 'Jean Yu'; 'Florian Escabillas'
Subject: RE: GWA S15-006-EPA, Route 4_ProPacific PCO for SMH 6908 invert- Meeting Minutes
Attachments: CO Proposal to Correct SMH-6908 Invert & Time Extension.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Tyrone,

Please see revised cost proposal w/ cover letter fya!

Best Regards,


Jerlie M. Gutierrez
PROPACIFIC BUILDER CORP.
formerly GUAM YOOSHIN CORP.
750 Rte 8 Ste 202 Hanam Plaza,
Barrigada, Guam 96913 USA
Tel. (671) 477-3109
Fax (671) 477-7424
Email: rgyc@guam.net

From: Tyrone De Guzman [mailto:tyrone.deguzman@empSCO.net]
Sent: Wednesday, September 09, 2020 1:04 PM
To: Jerlie M. Gutierrez; Noel Viaje
Subject: RE: GWA S15-006-EPA, Route 4_ProPacific PCO for SMH 6908 invert- Meeting Minutes

Jerlie,

Thank you for your consideration. Deduct the amount on the Traffic control item and re-submit the PCO to me.
As per 3 items on item 2.0, we can proceed with this PCO. If the work did not perform, then we can issue a deductive change order.

Regards,
Tyrone

Tyrone de Guzman, P.E. |  **EMPSCO Engineering Consultants**
1998 Army Drive, 2/F EMPSCO Bldg. Dededo, Guam 96929
Tel no.: 671.638.4716/5716; Fax: 671.638.2136 | empSCO@guam.net

From: Jerlie M. Gutierrez <rgyc@guam.net>
Sent: Wednesday, September 9, 2020 9:46 AM
To: Tyrone De Guzman <tyrone.deguzman@empSCO.net>; Noel Viaje <noel.viaje@empSCO.net>
Subject: RE: GWA S15-006-EPA, Route 4_ProPacific PCO for SMH 6908 invert- Meeting Minutes

Tyrone,

I want to finish the project a.s.a.p. If it can resolved this issue and have the CO approval faster, then I am OK with it. We'll round it to \$30K then.

Best Regards,

Jerlie M. Gutierrez

PROPACIFIC BUILDER CORP.
formerly GUAM YOOSHIN CORP.
750 Rte 8 Ste 202 Hanam Plaza,
Barrigada, Guam 96913 USA
Tel. (671) 477-3109
Fax (671) 477-7424
Email: rgyc@guam.net

From: Tyrone De Guzman [<mailto:tyrone.deguzman@empSCO.net>]
Sent: Tuesday, September 08, 2020 9:40 PM
To: Jerlie M. Gutierrez; Noel Viaje
Subject: Re: GWA S15-006-EPA, Route 4_ProPacifc PCO for SMH 6908 invert- Meeting Minutes

Jerlie,
Can you still shred down the cost and fix it to \$30k? I'm just thinking of options on how we can move on on this PCO. I can talked to John that you are willing to lower the cost now that we have no idea when DPW shall be open. Let me know your thought.

Regards,

Tyrone de Guzman PE
EMPSCO Engineering Consultants

Get [Outlook](#) for iOS

From: Tyrone De Guzman <tyrone.deguzman@empSCO.net>
Sent: Tuesday, September 8, 2020 10:56 AM
To: Jerlie M. Gutierrez; Noel Viaje
Subject: Re: GWA S15-006-EPA, Route 4_ProPacifc PCO for SMH 6908 invert- Meeting Minutes

Jerlie,
Did you talked to DPW highway based on John's recommendation to update the traffic control?
I need this information before sending this to John for approval.

Regards,

Tyrone de Guzman PE
EMPSCO Engineering Consultants

Get [Outlook](#) for iOS

From: Jerlie M. Gutierrez <rgyc@guam.net>
Sent: Tuesday, September 8, 2020 10:45:17 AM
To: Tyrone De Guzman <tyrone.deguzman@empsco.net>
Cc: Noel Viaje <noel.viaje@empsco.net>; Butch Arce <butch.arce@empsco.net>; 'Vicente Escabillas' <sgyc@guam.net>; 'Jean Yu' <jgyc@guam.net>; 'Floriano Escabillas' <fgyc.ppbc@gmail.com>
Subject: RE: GWA S15-006-EPA, Route 4_ProPacifc PCO for SMH 6908 invert- Meeting Minutes

Tyrone,

Please see attached cost proposal and my comments in Red on the preceding email. This is the lowest I can give. I have lowered a lot already so we can just move on and finish the job. I hope this is acceptable to John already. The 3 last items on item 2.0 (amounting to \$ 2,531.17) are optional per our Zoom meeting last Friday but I do not know how they work on the change order contract.

Best Regards,

Jerlie M. Gutierrez

PROPACIFIC BUILDER CORP.
formerly GUAM YOOSHIN CORP.
750 Rte 8 Ste 202 Hanam Plaza,
Barrigada, Guam 96913 USA
Tel. (671) 477-3109
Fax (671) 477-7424
Email: rgyc@guam.net

From: Tyrone De Guzman [<mailto:tyrone.deguzman@empsco.net>]
Sent: Monday, September 07, 2020 1:19 PM
To: Jerlie M. Gutierrez; Noel Viaje
Cc: Nilo Villaluz; Jun Capulong; Butch Arce; Ferdie Cabuhat
Subject: RE: GWA S15-006-EPA, Route 4_ProPacifc PCO for SMH 6908 invert- Meeting Minutes

Jerlie,

For item no. 3 and item no. 4 below, Here is our cost evaluation in terms of labor cost based on our Meeting and discussion last September 4, 2020.

1. Cleaning & Disinfecting of SMH bottom portion
 - Considering 5 WDays with 30 min per day for cleaning and disinfecting; **Total = \$550.00 + FICA + Water + 30 minutes preparation and hauling to and from the jobsite.**
 - o Water blaster, 3,000 psi = \$163.00
 - o Submersible pump, 2" dia, ½ HP = \$212.00
 - o Labor
 - a. Superintendent, \$23 x 2.5 = \$57.50
 - b. Laborer, \$15.00 x 2.5 = \$37.50
 - c. Laborer, \$18.00 x 2.5 = \$45.00
 - d. Helper, \$14.00 x 2.5 = \$35.00

We pay our workers from preparations like fetching water and getting the tools & equipments from lay-down storage and hauling it to jobsite, this is a minimum of 30 minutes already, then we secure these equipments again in the afternoon.


We also pay for the water we use which we fetch in our office (commercial rate). The \$ 800.00 is very very low already.

2. Grout injection

- Labor cost; considering 8 hrs of work. **Total = \$512.00** Direct paid rate plus 7.65% company share for their FICA (SS=6.2% % Medicare 1.45%) = **\$ 551.17**
 - o Superintendent, \$23.00 x 8 hrs = \$184.00
 - o Grout injector/Certified installer, \$23.00 x 8 hrs = \$184.00
 - o Laborer, confined competent person, \$18.00 x 8 hrs = \$144. 00
- 3. Demolition of humps
 - Labor cost; considering 40 hrs of work. Total = **\$ 2,800.00** Direct paid rate plus 7.65% company share for their FICA (SS=6.2% % Medicare 1.45%) = **\$ 3,014.20**
 - o Superintendent, \$23.00 x 40 hrs = \$920.00
 - o Laborer, \$18.00 x 40 hrs = \$720.00
 - o Laborer, \$15.00 x 40 hrs = \$600.00
 - o Helper, \$14.00 x 40 hrs = \$560.00

If you agreed on our cost, please incorporate it into your updated PCO.

Regards,
Tyrone

Tyrone de Guzman, P.E. |  **EMPSCO Engineering Consultants**
1998 Army Drive, 2/F EMPSCO Bldg. Dededo, Guam 96929
Tel no.: 671.638.4716/5716; Fax: 671.638.2136 | empSCO@guam.net

From: Tyrone De Guzman
Sent: Friday, September 4, 2020 3:54 PM
To: Jerlie M. Gutierrez <rgyc@guam.net>; John Riegel <JRiegel@BrwnCald.com>; Noel Viaje <noel.viaje@empSCO.net>
Cc: Nilo Villaluz <nilo.villaluz@empSCO.net>; Jun Capulong <jun.capulong@empSCO.net>; Butch Arce <butch.arce@empSCO.net>; Ferdie Cabuhat <ferdie.cabuhat@empSCO.net>
Subject: GWA S15-006-EPA, Route 4_ProPacifc PCO for SMH 6908 invert- Meeting Minutes


4 September 2020

Zoom meeting was held to discuss the PCO for SMH 6908 invert, extra work. Below is a summary of our discussion as follow based on the subject above:

1. Jerlie shall communicate with DPW Highway Division if they can allow ProPacifc to close the lane for 5 days for SMH-6908 work. Jerlie to prepare a sketch of traffic control to John and DPW as a reference.
2. John shall ask GWA for assistance to talk to DPW for the closure of the lane for 5 days of work.
3. ProPacifc can proceed to order the material for grouting, specified in PCO item 2. Labor costs shall need to be negotiated by EMPSCO to ProPacifc.
4. Labor cost for the Demolition of the hump shall need to be negotiated by EMPSCO to ProPacifc.
5. ProPacifc shall need to revisit the cost for safety- confined space and equipment, retrieval, and air monitoring equipment.
6. ProPacifc to adjust additional time to 21 days to include the recent Covid-19 lockdown.
7. Jerlie to Provide revised PCO for SMH 6908 based on the above list of items discussed.

If there is misstated or omitted, please let me know.

Regards,

Tyrone de Guzman, P.E. |  **EMPSCO Engineering Consultants**
1998 Army Drive, 2/F EMPSCO Bldg. Dededo, Guam 96929
Tel no.: 671.638.4716/5716; Fax: 671.638.2136 | empSCO@guam.net

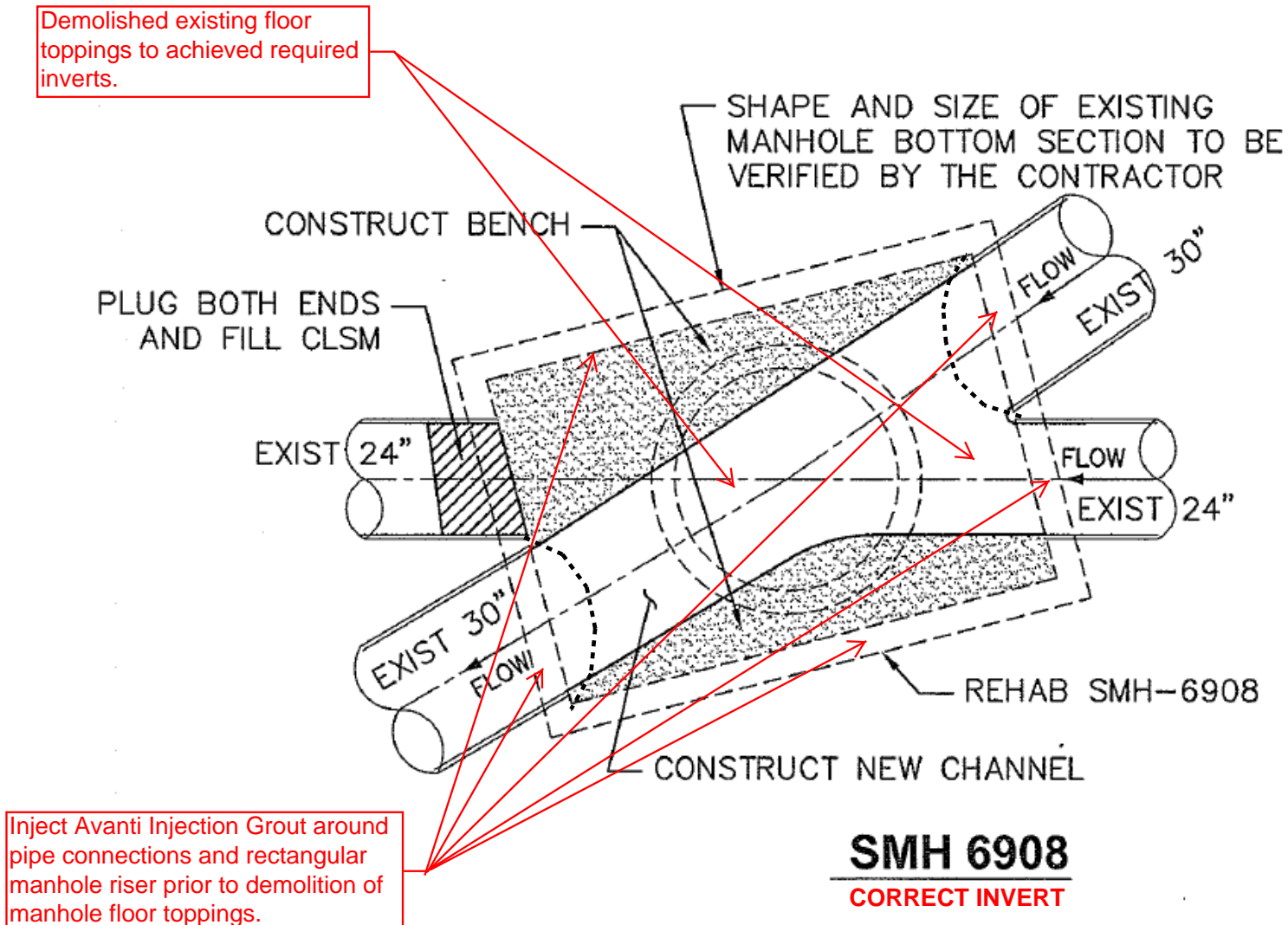
**Original ProPacific
Builder Corp.
PCO no. 6**

Route 4 Relief Sewer Line Rehabilitation And Replacement

GWA Project No#. S15-006-EPA

CHANGE ORDER PROPOSAL TO CORRECT EXISTING SMH-6908 INVERT

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL COST
1.0	Cleaning & disinfecting of SMH bottom portion.	LS	1.00	800.00	800.00
2.0	Grout injection of SMH bottom portion.				
	Fibrotite Rope (1 small box)	BOX	1.00	230.00	230.00
	Injection Ports	EA	15.00	7.05	105.75
	Avanti Injection Grouts (5 gallon pail)	PAIL	3.00	2,265.00	6,795.00
	Air freight cost of Grout injection materials.	EA	3.00	200.00	600.00
	High-grade Acetone for cleaning of injection pump after each use.	GAL	5.00	96.00	480.00
	Service vehicles, grout injection pump, & other tools.	LS	1.00	1,500.00	1,500.00
	Labor - 3 guys (w/ 1 Certified Installer & 1 Confined Spaced Competent Person)	LS	1.00	3,600.00	3,600.00
3.0	Demolition of hump				
	Labor - 3 guys (w/ 1 Confined Spaced Competent Person)	LS	1.00	3,600.00	3,600.00
	Service vehicles, chipping guns, power generator, & other tools.	LS	1.00	1,500.00	1,500.00
	Disposal of contaminated debris	LS	1.00	700.00	700.00
		SUB-TOTAL			19,910.75
		Overhead & Profit (15%)			2,986.61
		SUB-TOTAL			22,897.36
		GRT(5.21%)			1,192.95
		TOTAL			24,090.32
4.0	Traffic Control.	EA	1.00	4,000.00	4,000.00
5.0	By-pass and temporary plugs to isolate SMH-6908.	EA	1.00	7,200.00	7,200.00
6.0	Safety				
	Confined space equipments, retrieval, & air monitoring equipment.	LS	1.00	1,200.00	1,200.00
	Supply/exhaust fans w/ flexible hose, lightings, and power generator.	LS	1.00	600.00	600.00
	Miscellaneous disposable safety materials				
	Tyvek suits	LS	1.00	80.00	80.00
	Rubber gloves & hand gloves.	LS	1.00	40.00	40.00
	Face-mask with multi-gas cartridge & respirators.	SET	4.00	200.00	800.00
TOTAL COST					38,010.32
Please add 14 calendar days which include procurement & airfreight of materials to complete this task.					





Management Report

GWA CCU Work Session, October 13, 2020



(September 2020) To be updated

**GWA Workforce availability
as of September 11, 2020**

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

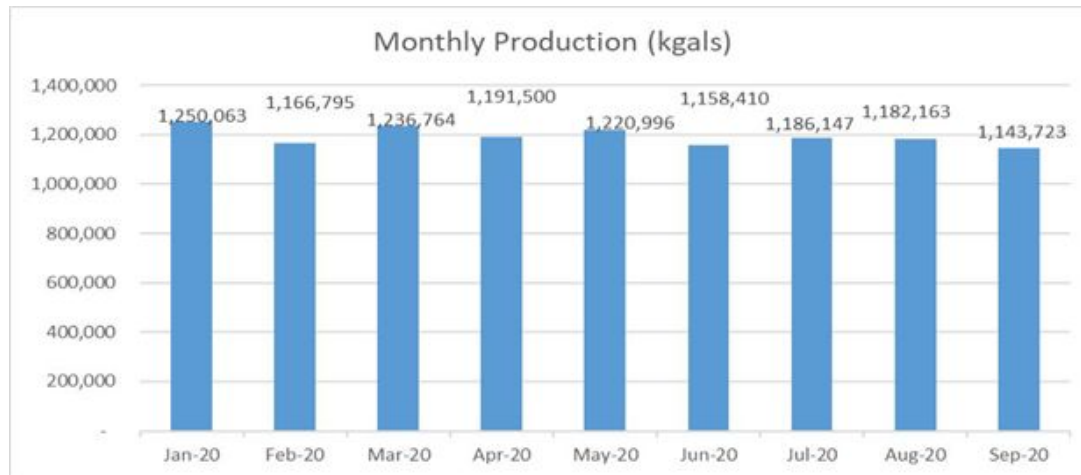
	Total	
Healthy/Reporting for duty at worksite	267	70.6%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	39	10.3%
Healthy/Reporting for duty - Teleworking	48	12.7%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	13	3.4%
LTD/Workers Comp	1	0.3%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

Operations Update

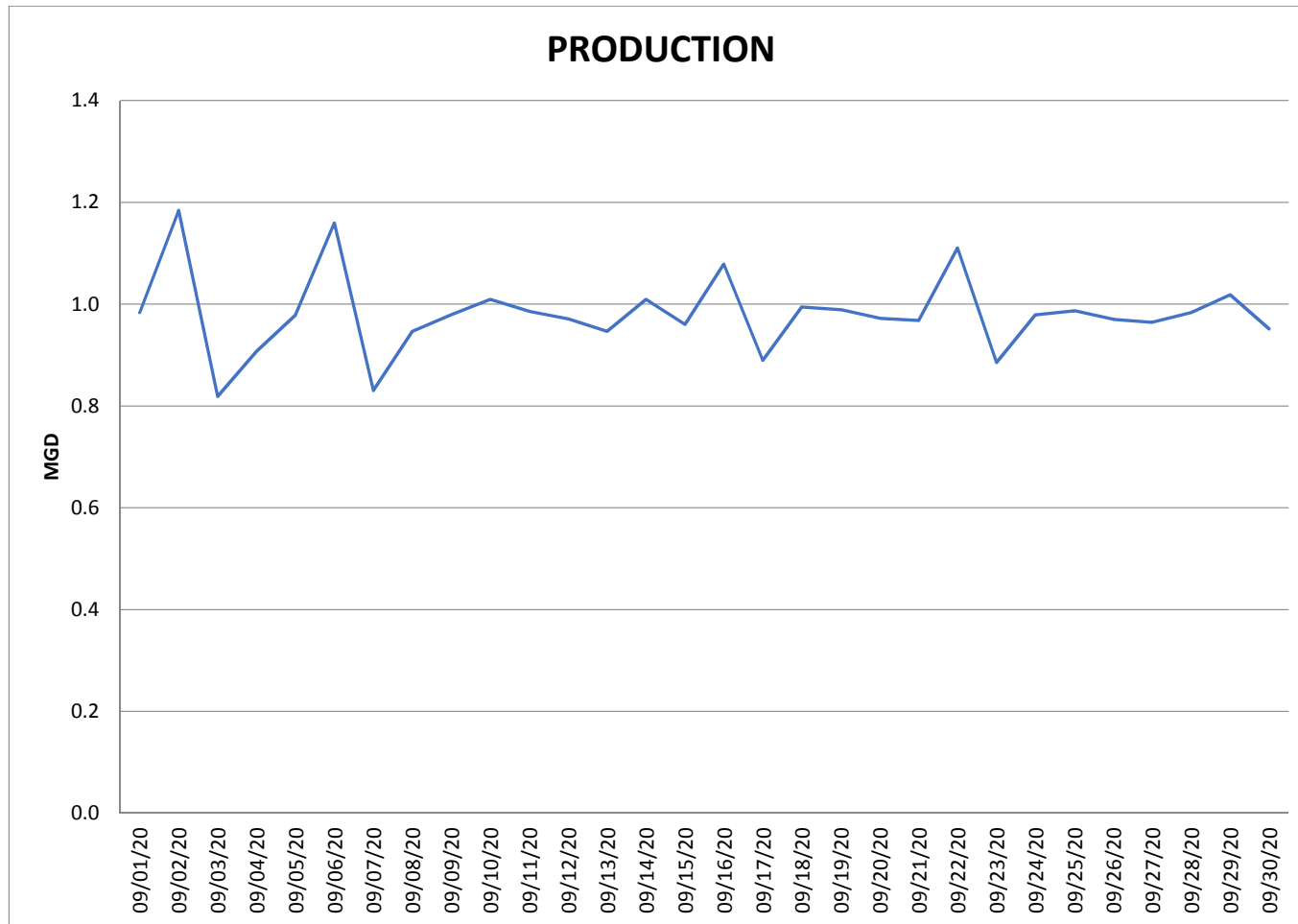
Production (September 2020)

Monthly Production Summary - September 2020				
Deep Wells			34.9 MGD	
Active wells =	92	of 120		
Avg days in operation =	30	days		
Total Production =	1,046,046	Kgals		
Springs			0.17 MGD	
Avg days in operation =	30	days		
Total Production =	5,102	Kgals		
Ugum Surface Water Plant			2.1 MGD	
Avg days in operation =	30	days		
Total Production =	63,173	Kgals		
Tumon Maui Well			0.98 MGD	
Avg days in operation =	30	days		
Total Production =	29,402	Kgals		
			1,143,723	38.1 MGD

DW Status as of 9/30/2020									
Active	92								
Grounded motor or Pump Failure	6	A26-D03-F06-F13-Y16-Y22							
Out of commission	8	A02-A07-A28-D05-D13-M14-MJ01-MJ05							
Temporarily Secured	2	A23-A25							
Standby	12	A10-A12-A29-D02-D19-D24-F05-F10-F20-M09-M12-M17A							
TOTAL	120								

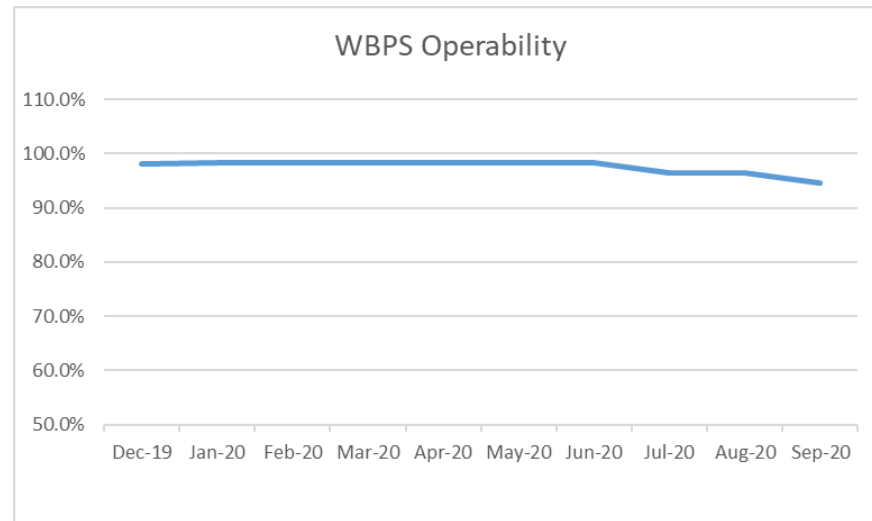


Tumon Maui Well Production (September 2020)

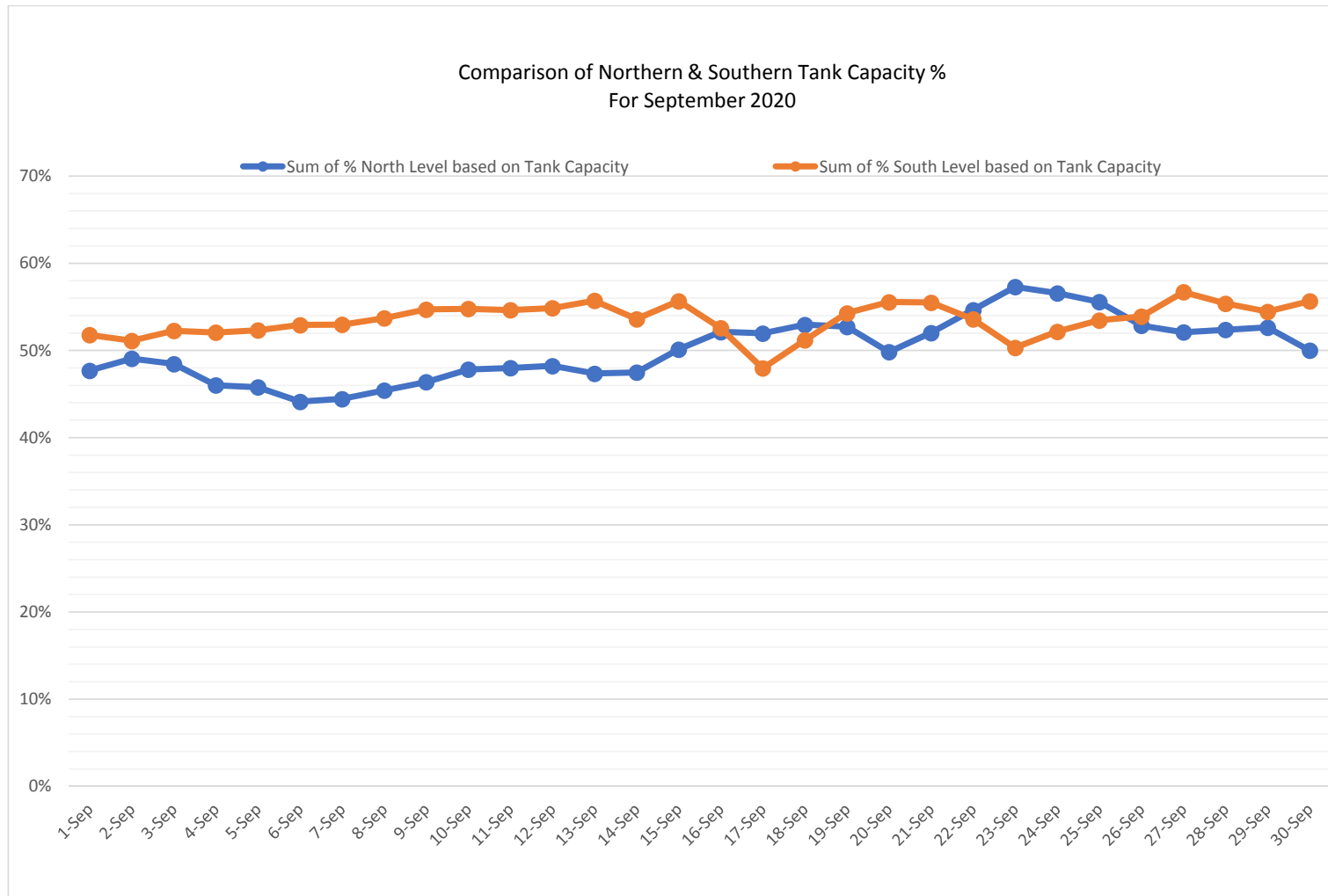


Distribution (September 2020)

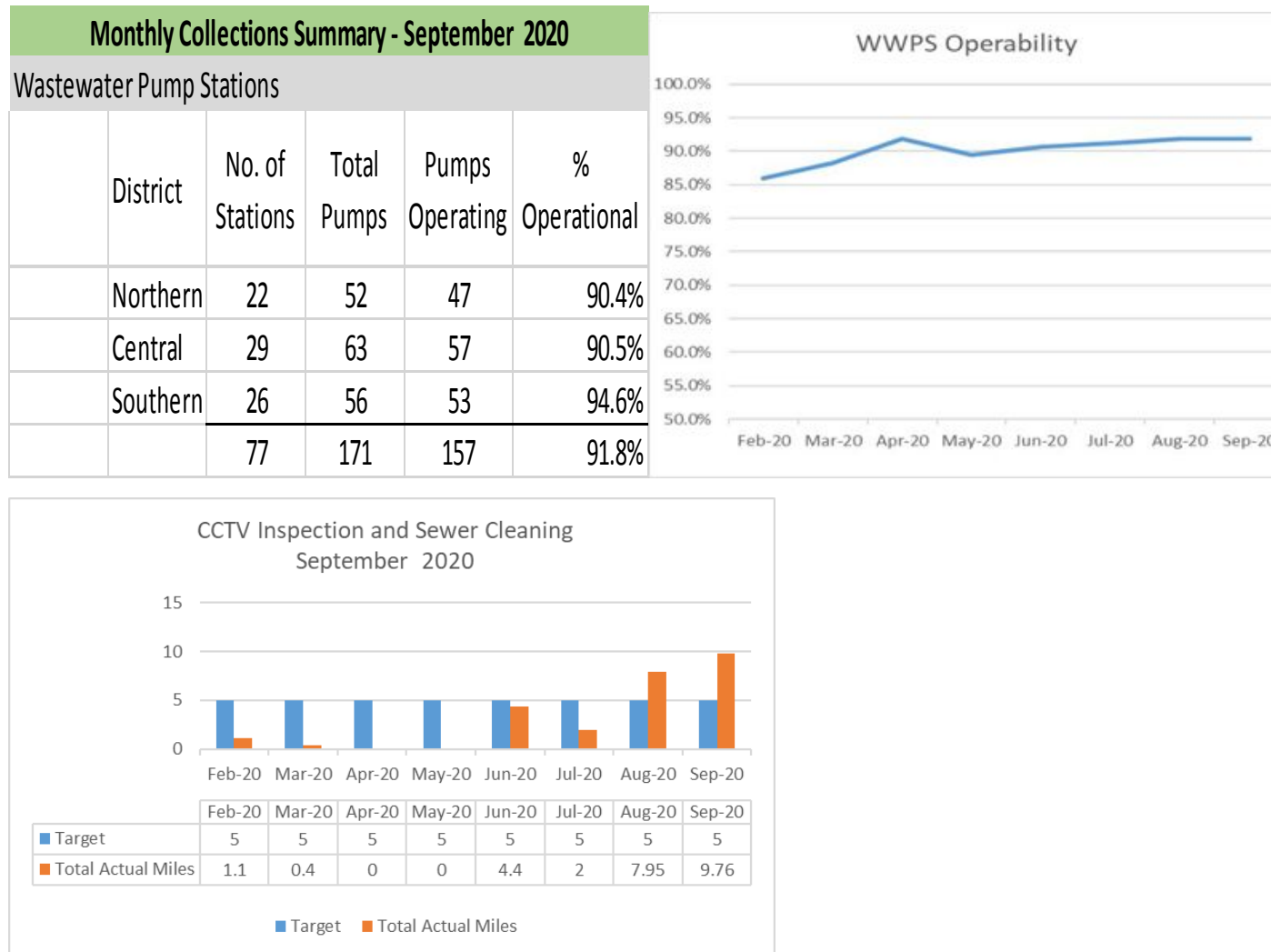
Monthly Distribution Summary - September 2020					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	14	93.3%
	Southern	7	15	15	100.0%
		27	56	53	94.6%



Distribution – Tank Levels (September 2020)



Wastewater Collections (September 2020)



Wastewater Collections –Cleaning/Jetting (September 2020)

Lada Sewer Line



Wastewater Collections –Cleaning/Jetting (September 2020)

Chalan Pago – Gerber



Wastewater Collections –Cleaning/Jetting (September 2020)

Carlos Heights



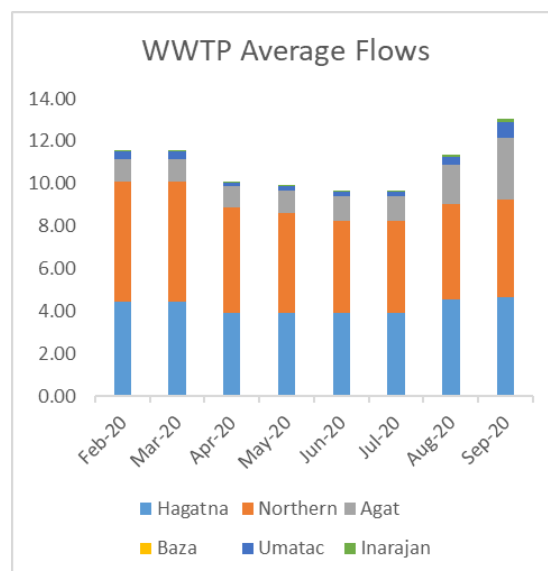
Wastewater Collections –Cleaning/Jetting (September 2020)

Harmon Loop



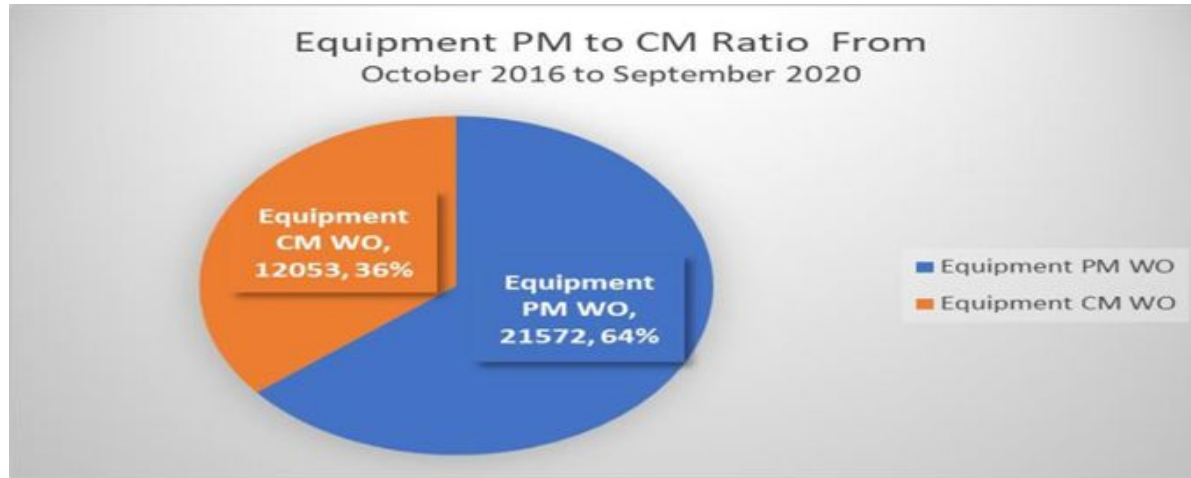
Wastewater Treatment (September 2020)

Monthly Wastewater Treatment Summary - September 2020				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	4.63	172,420	\$ 15,518
	Northern	4.63	860,880	\$ 77,479
	Agat	2.91	36,040	\$ 3,244
	Baza	0		
	Umatac	0.72		
	Inarajan	0.16		
		13.05	1,069,340	\$ 96,241



Asset Management (September 2020)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*

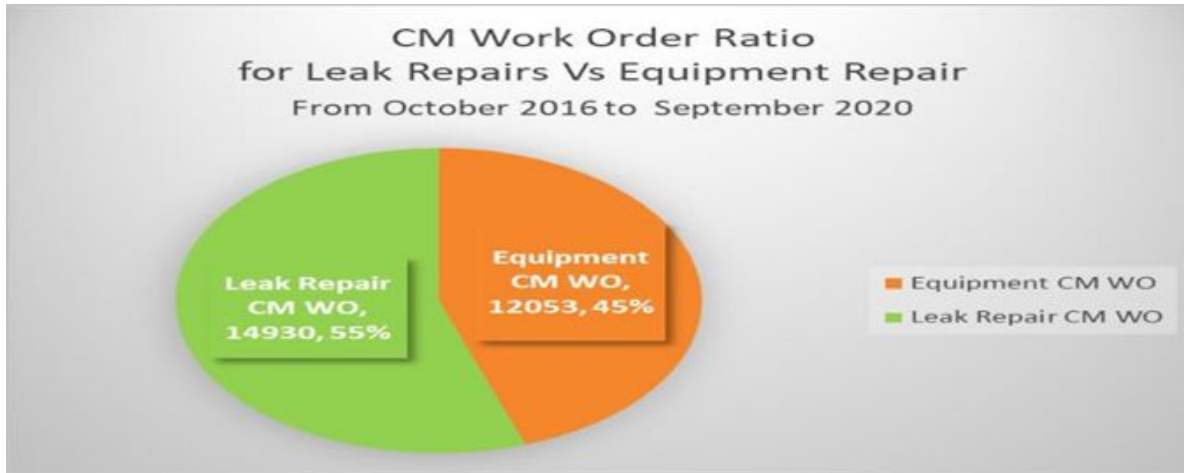


II. Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion*

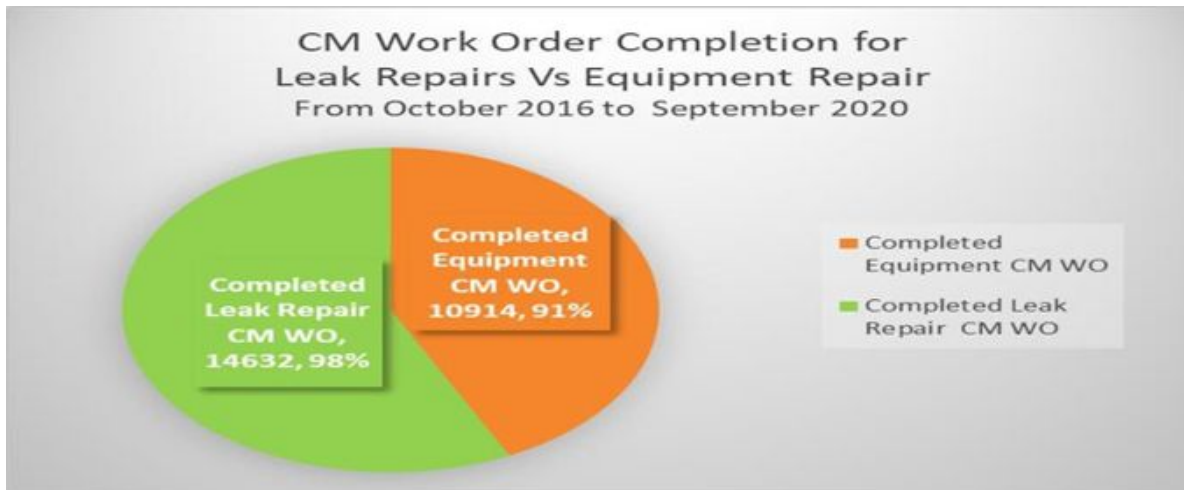


Asset Management (September 2020)

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



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



Backbilling through September 2020

Guam Waterworks Authority

Collections Report¹ on Accounts Backbilled thru September 30, 2020

For fiscal years 2015 thru 2020 (Sep)

Accounts Billed			Collection Status											
			Amounts Collected ¹			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	\$ 882	17	\$ 882	100%	0	\$ -		0	\$ -		0	\$ -	
FY2017	537	\$ 397,450	456	295,077	74%	22	42,262	11%	32	33,041	8%	27	27,070	7%
FY2018	1,374	\$ 742,109	1,201	559,431	75%	60	69,706	9%	65	71,452	10%	48	41,520	6%
FY2019	8,325	\$ 3,064,384	7,505	2,095,358	68%	187	171,329	6%	406	688,360	22%	227	109,337	4%
FY2020	3,394	\$ 991,979	2,532	476,441	48%	37	19,151	2%	773	483,120	49%	52	13,267	0%
Total	13,647	\$ 5,196,804	11,711	\$ 3,427,189	66%	306	\$ 302,448	6%	1,276	\$ 1,275,973	25%	354	\$ 191,194	4%

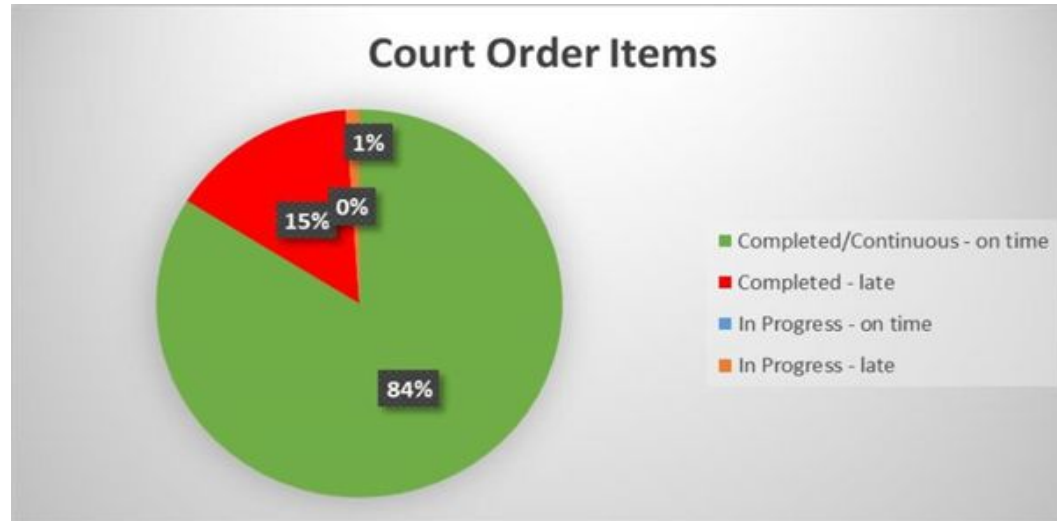
¹ Collections thru October 7, 2020

One Guam Update (September 2020)

- Tumon Maui Well
 - GWA replaced the locks on the gates for the area between St. John and the TMW. GWA will provide copies of the keys to DOD.
 - Navy verified that SCADA notifications through radio services were previously configured for TMW, but not currently connected. GWA will use this SCADA capability in the future.
- 02-AG1
 - No new update on the fence proposal update (for independent GWA access to well)
 - No new update on the GWA and DoD modification of license production rates. Maria will follow up with Andersen.
- 04-OEA Projects
 - Observation Wells/NGLA
 - GWA is still waiting on temporary construction easements (TCE) to proceed with the construction permits. Still going through DOD process
 - DOD and GWA will draft an MOU for splitting the responsibility for monitoring and maintenance of the NGLA observation wells based on locations (i.e., inside the fence vs outside the fence).
 - GWA is drafting an MOU with WERI for monitoring of NGLA observation wells which are GWA's responsibility. The MOU will cover the cost long term data collection and analysis.
- 07-Property Transfers
 - Transfer of Navy Laterals at Murray Road to GWA – no update.
- 30-Other
 - Marine Corps Base – Forest Enhancement Irrigation (FEI)
 - GWA is completing the analysis of the water requirement for Camp Blaz.
 - Umatac / Cetti Bay Easement
 - GWA provided to DOD the Conservation and Construction Easement agreement with GWA's request for the in-kind consideration for the use of the easement.

Court Order Summary (September 2020)

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



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

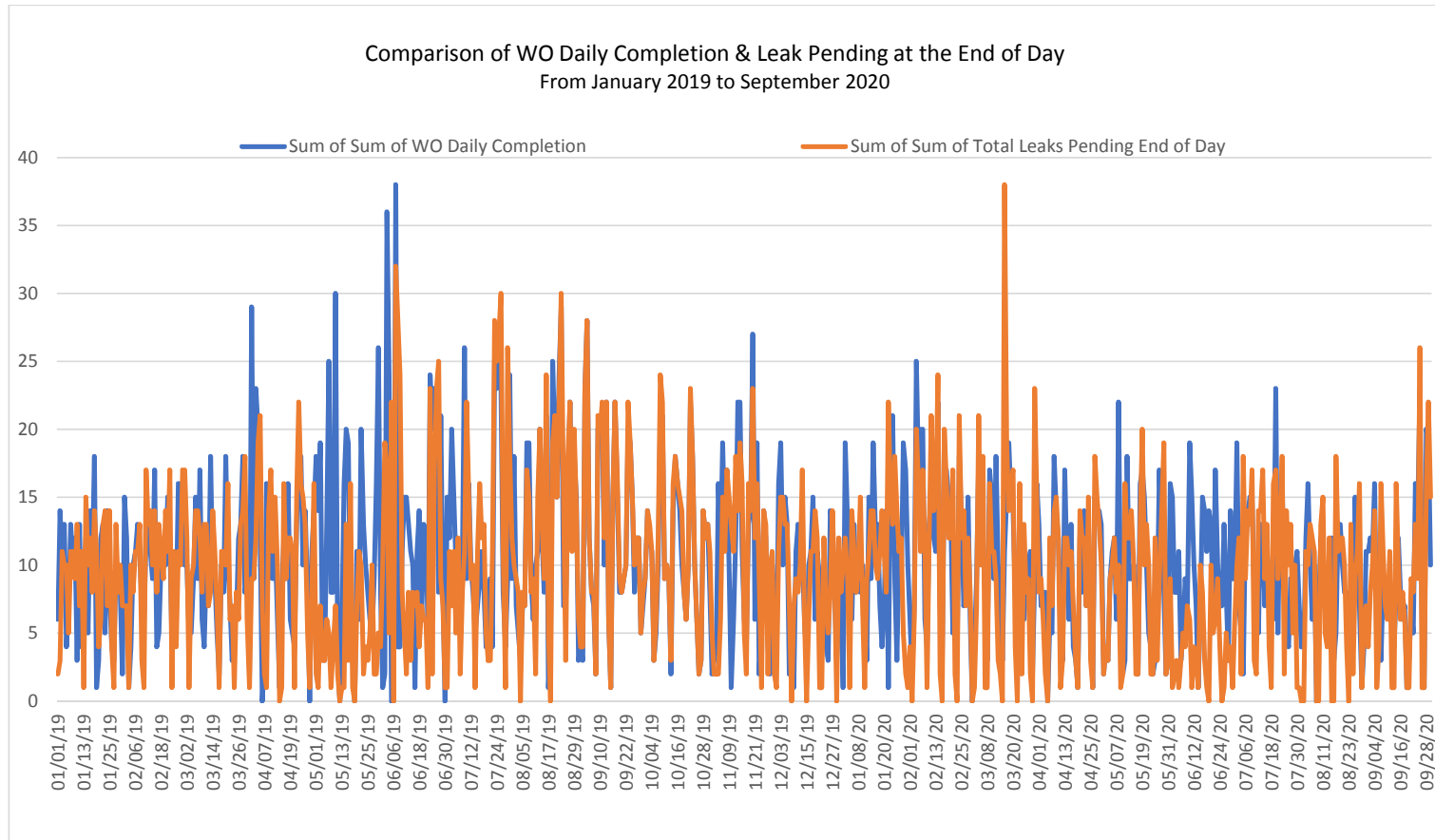
Court Order – Status Information (September 2020)

- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the “end” of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
 - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
 - General Counsel is drafting filing for submission to District Court
 - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
 - 09.16.2020 - 386 Joaquin LG Jesus, Asan - sewer overflow SSO #242 – rain
 - 09.17.2020 - Tun Jose Leon Guerrero, Asan - sewer overflow SSO# 245-rain
 - 09.17.2020 - Serenu Ave, Tamuning - sewer overflow SSO#246 - rain
 - 09.17.2020 - Nino Perdido, Asan - sewer overflow SSO #244– contractor pump capacity, insufficient
 - 09.17.2020 - 145 W. San Carlos, Asan, sewer overflow SSO# 247 - rain
 - 09.18.2020 - Cook St., Agat - REC#250 WO#20-09-1479 – FOG
 - 09.18.2020 - Chalan Kanton Tasi, Merizo - REC#249 WO#20-09-1426 – Station control failure
 - 09-18-2020 - Aga St. Hyundai, Santa Rita - REC#248 WO#20-09-1421 - rain
 - 09-19-2020 - SSO#251, Route 16 - manhole overflow - FOG
 - 09-19-2020 - 190 Judge Sablan, Ordod - sewer overflow SSO #253 - FOG
 - 09-22-2020 - Rosario Lane, Toto - MH overflow - FOG
 - 09-22-2020 - 271 West San Carlos, Asan - CO overflow – FOG
 - 10-04-2020 - Chalan Canton Tasi - Sewer Break WO#20-10-0249 REC#265 – pipe failure

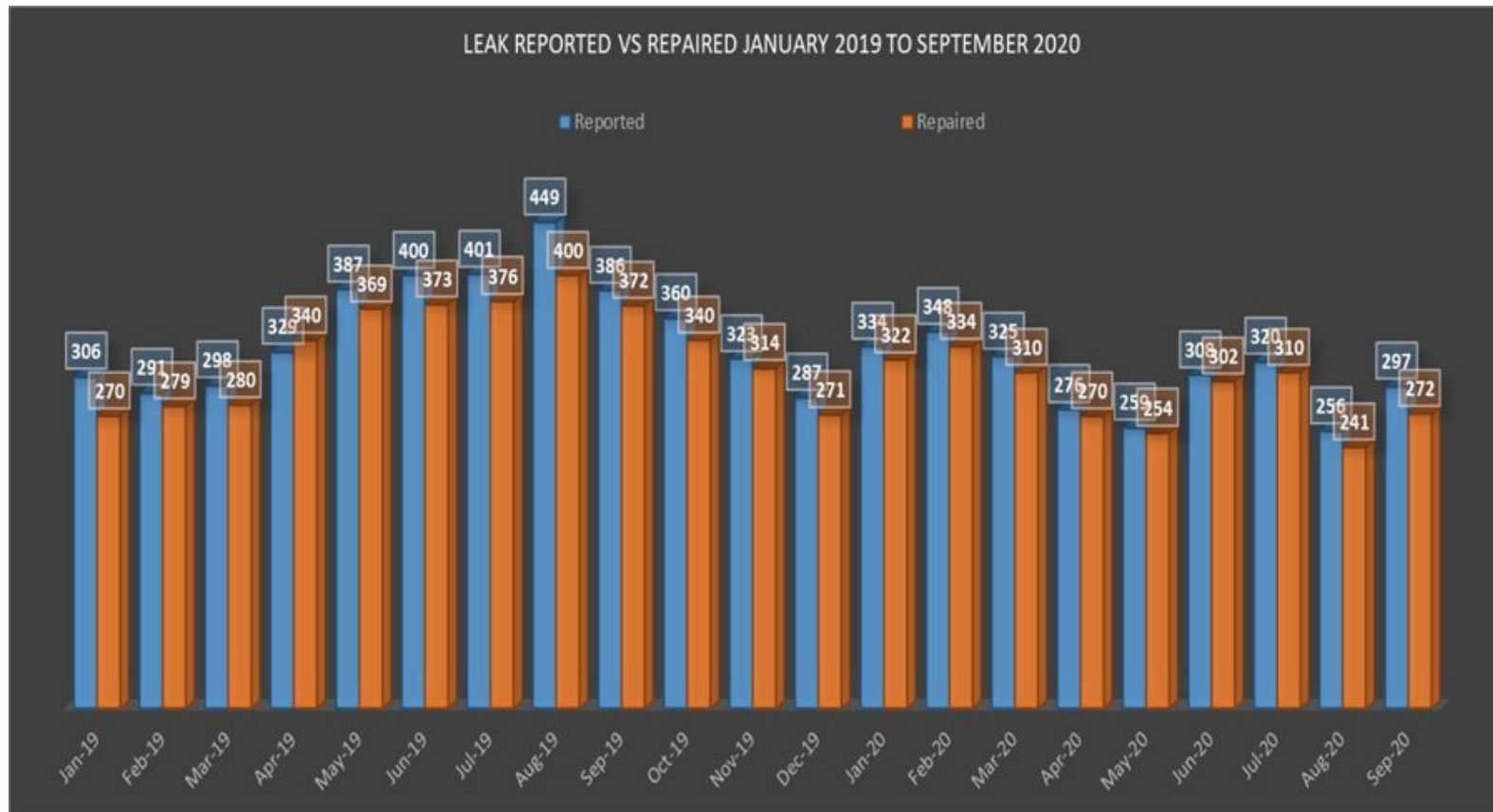
Land Acquisition Summary (September 2020)

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

Leak Repair Summary (September 2020)



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



Monthly Leak Report Cost (September 2020)



Assumptions:

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

Indicator	Target	Aug 2020	Sept 2020
Collection Ratio			
• Month to Date	*99%	89%	114%
• Year to Date	*99%	98%	99%
Days Billed	30	31	30
Employee Count	400 FTE	381 FTE	379 FTE
Water Demand			
• Month to Date	476,259	473,988	472,192
• Year to Date	5,715,108	5,268,011	5,740,204
Wastewater Flow			
• Month to Date	339,054	331,167	306,686
• Year to Date	4,068,647	3,725,878	4,032,564
Water Customers	42,724	42,992	42,838
Wastewater Customers	29,604	29,551	29,363

*Updated to reflect targets in Levels of Service

GWA Key Financial Indicators September 2020



Engineering Monthly Report October 2020

**Prepared By:
Barbara C. Cruz, P.E., Acting Chief Engineer**

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A. Summary Table of 2010, 2013, 2016 and 2020 Bonds

Potable Water

CIP #	CIP Description	2016 Bond Allotment	% encumbered	% available	2020 Bond Allotment	% encumbered	% available
PW 05-01	Ground Water Disinfection	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-03	Santa Rita Springs Booster Pump Rehab Phase II	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-05	"A Series Well Transmission Line	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	\$ -	N/A	N/A	\$ 700,000.00	0.00%	100.00%
PW 05-07	Meter Replacement Program	\$ 1,400,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 05-08	Barrigada Tank Repair/Replacement	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-09	Leak Detection	\$ 100,000.00	0.00%	100.00%	\$ 400,000.00	0.00%	100.00%
PW 05-10	Potable Water System Planning	\$ 876,294.00	100.00%	0.00%	\$ 400,000.00	0.00%	100.00%
PW 05-11	Implement Ground Water Rule	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-12	Brigade II (Ugum Lift) BPS Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-13	Deep Well Rehabilitation	\$ 250,000.00	44.01%	55.99%	\$ 350,000.00	0.00%	100.00%
PW 05-14	New Deep Wells at Down Hard	\$ 1,190,000.00	0.00%	100.00%	\$ 500,000.00	0.00%	100.00%
PW 05-15	Rehabilitation of Asan Springs	\$ -	N/A	N/A	\$ 550,000.00	0.00%	100.00%
PW 05-16	Master Meters	\$ 2,151,539.00	90.70%	9.30%	\$ -	N/A	N/A
PW 09-01	Ugum Water Treatment Plant Intake	\$ -	N/A	N/A	\$ 600,000.00	0.00%	100.00%
PW 09-02	Water Wells	\$ 2,500,000.00	6.80%	93.20%	\$ 500,000.00	0.00%	100.00%
PW 09-03	Water Distribution System	\$ -	N/A	N/A	\$ 2,250,000.00	0.00%	100.00%
PW 09-04	Pressure Zone Realignment	\$ 1,141,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 09-06	Central Water Distribution System 2005	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-09	Water Reservoir Internal/External	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-10	Water Reservoir Internal/External	\$ 800,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 09-11	Water System Reservoirs 2005 Improvements	\$ 58,830,170.00	90.50%	9.50%	\$ 25,900,000.00	0.00%	100.00%
PW 11-01	Distribution System Upgrades	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 11-02	Ugum Water Treatment Plant Reservoir	\$ -	N/A	N/A	\$ 7,500,000.00	0.00%	100.00%
PW 12-01	Water Audit Program & Water Loss Control Plan	\$ 550,000.00	90.75%	9.25%	\$ -	N/A	N/A
PW 12-02	Production Plan / Reduce Navy Purchases	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-03	Hydraulic Assessment of Tanks	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-04	Agana Heights & Chaot Tanks	\$ 1,220,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	\$ 1,822,133.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-06	Tank Replacement Piti & Hyundai	\$ 7,300,000.00	100.00%	0.00%	\$ 6,500,000.00	0.00%	100.00%
PW 12-07	Assessment of Maloljoj Elevated & Yigo Elevated	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	\$ 1,200,000.00	99.70%	0.30%	\$ -	N/A	N/A
MP-PW-Pipe-01	Astumbo Zone Piping				\$ -	N/A	N/A
MP-PW-Pipe-02	Route 1 Astumbo Zone Piping				\$ -	N/A	N/A
MP-PW-Pipe-03	Harmon Cliffline Piping to Route 1				\$ -	N/A	N/A
MP-PW-Pipe-04	Hyundai Well Piping				\$ 500,000.00	0.00%	100.00%
MP-PW-Pipe-05	Kaiser Zone Looping				\$ 300,000.00	0.00%	100.00%
MP-PW-Pipe-06	Mangilao Pressure Zone Realignment				\$ 300,000.00	0.00%	100.00%
MP-PW-Pipe-07	Mataguac BPS Suction Piping				\$ 500,000.00	0.00%	100.00%
MP-PW-Pipe-08	Nimitz Lower BPS Piping				\$ -	N/A	N/A
MP-PW-Pipe-09	Yigo, Santa Rosa Zone Realignment				\$ -	N/A	N/A
MP-PW-Pipe-10	Miscellaneous Piping Projects				\$ 200,000.00	0.00%	100.00%
MP-PW-Pipe-11	Miscellaneous Piping Connections				\$ 200,000.00	0.00%	100.00%
MP-PW-Pipe-12	Rehabilitation and Replacement Program				\$ 2,000,000.00	0.00%	100.00%
MP-PW-Pipe-13	2-Inch Pipe Replacement Program				\$ 3,330,000.00	0.00%	100.00%
MP-PW-Pipe-14	Asbestos Cement Pipe Replacement Program				\$ -	N/A	N/A
MP-PW-Pipe-15	PRV Rehab and Replacement				\$ 2,050,000.00	0.00%	100.00%
MP-PW-Pipe-16	Valve Exercise, Repair, and Replacement Program				\$ 250,000.00	0.00%	100.00%
MP-PW-Pipe-17	Cross Island Highway Piping				\$ 100,000.00	0.00%	100.00%
MP-PW-Tank-22	Existing Tank Inspections				\$ 150,000.00	0.00%	100.00%
MP-PW-Tank-23	Recurring Tank Inspections				\$ 400,000.00	0.00%	100.00%
MP-PW-BPS-01	Rehabilitate and Replace BPSs				\$ 409,000.00	0.00%	100.00%
MP-PW-BPS-02	Nimitz Hill Upper BPS				\$ 48,000.00	0.00%	100.00%
MP-PW-BPS-03	Route 15 BPS				\$ -	N/A	N/A
MP-PW-SWTP-01	Ugum SWTP River Intake Cleaning Project				\$ 380,000.00	0.00%	100.00%
MP-PW-SWTP-02	Ugum SWTP Intake Modifications				\$ 1,174,000.00	0.00%	100.00%
MP-PW-SWTP-03	Ugum SWTP Reliability Improvements				\$ 1,150,000.00	0.00%	100.00%
MP-PW-SWTP-04	Ugum SWTP 7-Year Improvement Project				\$ -	N/A	N/A
MP-PW-Well-01	Well Rehabilitation Program				\$ 3,600,000.00	0.00%	100.00%
MP-PW-Well-02	Well Equipment Overhaul Program				\$ -	N/A	N/A
MP-PW-Well-03	Capacity Enhancement – Well Exploration Program				\$ 500,000.00	0.00%	100.00%
MP-PW-Well-04	Capacity Enhancement – Well Development and Construction				\$ -	N/A	N/A
MP-PW-Well-05	Wellhead Protection Program				\$ 300,000.00	0.00%	100.00%
MP-PW-Well-06	Well Repair Program				\$ 1,200,000.00	0.00%	100.00%
MP-PW-Misc-01	South Guam Water Supply Study				\$ 100,000.00	0.00%	100.00%
MP-PW-Misc-02	Master Meter Implementation and Ongoing Meter Replacement				\$ 750,000.00	0.00%	100.00%
MP-PW-Misc-03	Hydrant Condition Assessment and Maintenance				\$ -	N/A	N/A
MP-PW-Misc-04	OneGuam Program				\$ 100,000.00	0.00%	100.00%
MP-PW-Misc-05	Leak Detection Assistance				\$ 150,000.00	0.00%	100.00%
DoD-3	Rehabilitation and New NGLA Monitoring Wells				\$ -	N/A	N/A
		\$ 81,331,136.00			\$ 66,291,000.00		

*Correction from prior month's report.

Wastewater

CIP #	CIP Description	2016 Bond Allotment	% encumbered	% available	2020 Bond Allotment	% encumbered	% available
WW 05-04	Wastewater System Planning	\$ 312,983.00	100.00%	0.00%	\$ 150,000.00	0.00%	100.00%
WW 05-05	Wastewater Vehicles	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 05-07	NDWWTP - Chlorine Tanks	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-01	Lift station upgrades	\$ 1,714,755.00	69.89%	30.11%	\$ 1,050,000.00	0.00%	100.00%
WW 09-06	Wastewater Collection System Repl/ Rehabilitation	\$ 1,055,478.00	56.98%	43.02%	\$ 1,400,000.00	0.00%	100.00%
WW 09-08	Facilities Plan/Design for Baza Gardens WWTP	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-10	Facilities Plan/Design for Agat-Santa Rita WWTP	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 11-03	Baza Gardens STP Replacement	\$ 25,048,522.50	90.16%	9.84%	\$ -	N/A	N/A
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	\$ 252,105.00	100.00%	0.00%	\$ -	N/A	N/A
WW 11-08	Agat/Santa Rita STP Replacement	\$ 2,226,659.06	89.93%	10.07%	\$ -	N/A	N/A
WW 12-01	Northern District WWTP Primary Treatment Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-02	Biosolids Management Plan	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-03	Agana WWTP Interim Measures	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-04	I&I SSES Southern	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-05	I&I SSES Central	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-06	I&I SSES Northern	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12 -07	Umatac Merizo Replacement	\$ 20,952,871.63	99.93%	0.07%	\$ -	N/A	N/A
WW 12-08	Wastewater System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-09	Wastewater Facility Back Up Power	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-10	Wastewater System Asset Inventory	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-01	Wastewater Sewer System Expansion	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-02	Northern District WWTP Secondary Treatment Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
MP-WW-Pipe-01	Gravity Pipe Rehabilitation/Replacement Program				\$ 1,970,000.00	0.00%	100.00%
MP-WW-Pipe-02	Barrigada Pump Station Pipe Rehabilitation/Replacement				\$ -	N/A	N/A
MP-WW-Pipe-03	Route 1 Piti Pipe Rehabilitation/Replacement				\$ 940,000.00	0.00%	100.00%
MP-WW-Pipe-04	Southern Link Pump Station Pipe Rehabilitation/Replacement				\$ 657,000.00	0.00%	100.00%
MP-WW-Pipe-05	Agana Heights Pipe Replacement				\$ -	N/A	N/A
MP-WW-Pipe-06	Northern District Route 1 Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-07	Northern District Route 1 Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-08	Northern District Route 1 Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-09	North Dededo Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-10	North Dededo Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-11	Route 16 Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-12	Barrigada Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-13	Mangilao Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-14	Dededo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-16	Yigo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-17	Mamajanao Capacity Replacement				\$ 814,000.00	0.00%	100.00%
MP-WW-Pipe-18	Agat-Santa Rita Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-19	Agat-Santa Rita Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-20	Agat-Santa Rita Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-21	Baza Gardens Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-22	Baza Gardens Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-23	Baza Gardens Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-24	Umatac-Merizo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-25	Piping Near Bayside Lift Station				\$ -	N/A	N/A
MP-WW-Pipe-26	Finile Drive Rehabilitation - Agat				\$ 813,000.00	0.00%	100.00%
MP-WW-Pipe-27	Septic/Cesspool System Reduction Program				\$ 350,000.00	0.00%	100.00%
MP-WW-MH-01	Manhole Rehabilitation Program				\$ 350,000.00	0.00%	100.00%
MP-WW-FM-01	Force Main Rehabilitation/Replacement Program				\$ 100,000.00	0.00%	100.00%
MP-WW-FM-02	Replace Yigo Lift Station Force Main				\$ 200,000.00	0.00%	100.00%
MP-WW-FM-03	Route 1 Asan Force Main Rehabilitation/Replacement				\$ 2,124,000.00	0.00%	100.00%
MP-WW-FM-04	Hagåtña WWTP Force Main Rehabilitation/Replacement				\$ 6,600,000.00	0.00%	100.00%
MP-WW-Pump-01	Lift Station Rehabilitation/Replacement Program				\$ 8,320,000.00	0.00%	100.00%
MP-WW-Pump-02	Tumon Basin - Fujita Lift Station Analysis				\$ 9,600,000.00	0.00%	100.00%
MP-WW-Pump-03	Replacement of Former Navy Pump Station (Donut Hole)				\$ 1,301,000.00	0.00%	100.00%
MP-WW-WWTP-01	Hagåtña WWTP Primary Treatment Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-02	Hagåtña WWTP Secondary Treatment Upgrade				\$ -	N/A	N/A
MP-WW-WWTP-03	Inarajan WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-04	Pago Socio WWTP Pump Station Conversion				\$ -	N/A	N/A
MP-WW-WWTP-05	Umatac-Merizo WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-06	Agat-Santa Rita WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-07	Baza Gardens Cross Island Pipeline - Preliminary Treatment Equipment Repair and Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-08	Northern District WWTP Completion				\$ 7,500,000.00	0.00%	100.00%
MP-WW-WWTP-09	Ocean Outfall Inspection Program				\$ 100,000.00	0.00%	100.00%
MP-WW-Misc-01A	Update Wastewater Collection System Model (Major Update)				\$ -	N/A	N/A
MP-WW-Misc-01B	Update Wastewater Collection System Model (Continued)				\$ 50,000.00	0.00%	100.00%
MP-WW-Misc-02	I/I and SSES Assessments				\$ 50,000.00	0.00%	100.00%
MP-WW-Misc-03	Miscellaneous Wastewater Improvements				\$ 500,000.00	0.00%	100.00%
MP-WW-Misc-04	Fats, Oils, and Grease Study				\$ 50,000.00	0.00%	100.00%
DoD-01	NDWWTP Secondary Treatment Capacity 12MGD				\$ -	N/A	N/A
DoD-02	Northern Systems Wastewater System				\$ -	N/A	N/A
		\$ 51,563,374.19			\$ 44,989,000.00		

Electrical Engineering Support

CIP #	CIP Description	2016 Bond Allotment	% encumbered	% available	2020 Bond Allotment	% encumbered	% available
EE 05-02	SCADA Pilot Project	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-01	Wastewater Pumping Station Electrical Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-02	Electrical Upgrade - Water Wells	\$ -	N/A	N/A	\$ -	0.00%	0.00%
EE 09-03	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-04	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ 150,000.00	0.00%	100.00%
EE 09-05	Electrical Upgrade - Other Water	\$ -	N/A	N/A	\$ 100,000.00	0.00%	100.00%
EE 09-06	SCADA Improvements - Phase I	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-07	SCADA Improvements - Phase 2	\$ -	N/A	N/A	\$ 45,000.00	0.00%	100.00%
EE 09-08	SCADA Improvements - Phase 3	\$ 1,077,497.00	74.43%	25.57%	\$ 25,000.00	0.00%	100.00%
EE 09-09	SCADA Improvements - Phase 4	\$ 4,378,118.00	81.61%	18.39%	\$ -	N/A	N/A
MP-Gen-EE-01	SCADA Implementation Phase A2 – Initial Project Completion				\$ 4,250,000.00	0.00%	100.00%
MP-Gen-EE-02	SCADA Implementation Phase B – Additional Sites				\$ -	N/A	N/A
MP-Gen-EE-03	SCADA Implementation Phase C – Additional Instruments				\$ -	N/A	N/A
MP-Gen-EE-04	SCADA System Improvement Program				\$ -	N/A	N/A
		\$ 5,455,615.00			\$ 4,570,000.00		

*Changed from N/A to %

Miscellaneous Engineering Support

CIP #	CIP Description	2016 Bond Allotment	% encumbered	% available	2020 Bond Allotment	% encumbered	% available
MC 05-01	Laboratory Modernization	\$ 1,127,000.00	100.00%	0.00%	\$ -	N/A	N/A
MC 05-02	Land Survey	\$ 1,260,524.00	99.35%	0.65%	\$ -	N/A	N/A
MC 09-01	General Plant Improvements	\$ 1,543,760.00	96.97%	3.03%	\$ -	N/A	N/A
MC 15-01	Information Technology Intergration Improvements	\$ 500,000.00	69.05%	30.95%	\$ -	N/A	N/A
MP-Gen-Misc-01	GWA Systems Planning				\$ 550,000.00	0.00%	100.00%
MP-Gen-Misc-02A	WRMP Update (Comprehensive Update)				\$ -	N/A	N/A
MP-Gen-Misc-02B	WRMP Update (Interim Update)				\$ 200,000.00	0.00%	100.00%
MP-Gen-Misc-03	Surveying and Property Delineation				\$ 250,000.00	0.00%	100.00%
MP-Gen-Misc-04	Information Technology Improvements				\$ 1,650,000.00	40.98%	59.02%
MP-Gen-Misc-05	GWA Infrastructure Improvements				\$ 2,500,000.00	0.00%	100.00%
MP-Gen-Misc-06	GPWA Fleet Maintenance Facility				\$ 500,000.00	0.00%	100.00%
MP-Gen-Misc-07	Mobile Equipment Replacement Program				\$ 800,000.00	0.00%	100.00%
MP-Gen-Misc-08	General Plant Improvements				\$ 1,000,000.00	0.00%	100.00%
MP-Gen-Misc-09	Security and Resilience Program				\$ 200,000.00	0.00%	100.00%
		\$ 4,431,284.00			\$ 7,650,000.00		

	2016 Bond Allotment
CIP Water	\$ 81,331,136
CIP Wastewater	\$ 51,563,374
CIP Electrical	\$ 5,455,615
CIP Miscellaneous	\$ 4,431,284
	\$ 142,781,409

	2020 Bond Allotment
	\$ 66,291,000
	\$ 44,989,000
	\$ 4,570,000
	\$ 7,650,000
	\$ 123,500,000

Bond Fund	Construction Fund Amount (\$M)	Estimated # of months fund available for use	Total Funds encumbered to date (\$M)***	% of fund used	Rate of Spending: (\$M) per year
2005	\$82.930	82*	\$82.930	100.00%	12.14
2010	\$87.402	116**	\$84.385	96.55%	8.73
2013	\$139.325	78**	\$135.242	97.07%	20.81
2016	\$140.019	48**	\$128.215	91.57%	32.05
2020	\$123.590	3**	\$0.676	0.55%	2.70

* End date November 2013 via CCU Resolution 06-FY2014

** Includes month of September 2020

*** Includes Expenses Only

B. Projects Procurement

Percentage Key:

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

BOX KEY FOR PROCUREMENT:

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

<u>BID PACKAGE</u> PW 09-02	New Well Construction (AG-10-Y-8 & AG-12)	
<50% Complete	Activities/Notes: GWA engineering continuing discussion with Dept. of Agriculture and lessee on options of acquisition of property for well site at AG-12. Internal GWA discussions underway for survey and appraisal services. GWA executed Change Order with GHD to update the design plans specific to the new well locations.	
Project Description:	The project is to construct three new production wells for GWA as well as installation of a water main to connect the new production wells to the Ysengsong Reservoirs.	

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

RFP USEPA	Design of Dungca Beach Sewer Relocation	
90% Complete	Activities/Notes: Negotiating fee proposal with the selected firm.	
Project Description:	The work performed under this project procurement shall consist of replacement of a sewer main located along the shores of Dungca Beach, from the Bayside Sewer Pump Station (SPS) to an area north of Lagoon Drive. The new sewer main shall be located within the public right of way along Trankilo Road and Lagoon.	

RFP USEPA	Design of Hagatna Main Sewage Pump Station Redundant Force Main	
<90% Complete	Activities/Notes: Negotiating fee proposal with selected A-E firm.	
Project Description:	The work to be performed under this project procurement shall consist of identifying redundant force main options and to investigate the current condition of the existing force main. If repair/relocation is needed, then identify options and provide the design for the selected options, including pump station upgrades, if necessary.	

RFP USEPA	Design of Fujita Sewage Pump Station Redundant Force Main	
<90% Complete	Activities/Notes: Evaluating RFP proposals.	
Project Description:	The work to be performed under this project procurement shall consist of identifying redundant force main options and provide the design for the selected option. After the redundant force main is placed in operation, investigate the condition of the original 14-inch force main to determine if repair, relocation, or replacement is needed in order to ensure force main redundancy. Identify options and provide the design for the selected option, including potential use of CIPP and if necessary, pump station upgrades.	

RFP USEPA	Design of Hagatna Wastewater Treatment Plant Causeway and Facility Structural Analysis	
<70% Complete	Activities/Notes: RFP advertised on 09/25/2020.	
Project Description:	The work to be performed under this project procurement shall consist of assessment of the structural integrity of the causeway for continued operations, including: vehicular traffic (to include heavy vehicles such as pumping trucks and construction equipment); pedestrian traffic; as a conveyance for utilities to the WWTP and potentially, a conveyance for a new force main; evaluation of culvert hydraulics, and inspection of vertical members, including underwater inspections. Also, to assess the structural integrity of WWTP building structures including concrete and metal structures/components.	

<u>BID PACKAGE</u> USEPA	Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement – Phase II	
90% Complete	Activities/Notes: Evaluating bid proposals.	
Project Description:	Work to be performed under this project shall consist of cleaning and rehabilitating existing 16-inch, 24-inch and 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, reinstating sewer laterals after CIPP rehabilitation is complete, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.	

<u>BID PACKAGE</u> USEPA-SRF	Groundwater Wells A-02, A-07, A-12, D-05 and F-03 Rehabilitation (Re-Bid)	
70% Complete	Activities/Notes: Project was advertised for construction on 08/04/2020. The bid proposal deadline has been extended and is due on 10/15/2020 per Addendum no.2. Designer submitted revisions to the plans and specification and will be included in an Addendum no.3 after GWA reviews.	
Project Description:	Work to be performed under this project consist of rehabilitating four (4) existing production well sites including development, testing and permitting of a new production well.	

<u>BID PACKAGE</u> OEA GRANT	Northern Guam Lens Aquifer (NGLA) Monitoring System Expansion Project for the Guam Water and Wastewater Infrastructure Improvements Program	
95% Complete	Activities/Notes: Bid opening conducted on 09/04/2020. Bid evaluations completed Received CCU approval last September 2020. Award pending grant fund transfer.	
Project Description:	Work to be performed under this project consist of installation of seven new monitoring wells and rehabilitation for two existing monitoring wells on Department of Defense (DoD) property.	

<u>BID PACKAGE</u> OEA GRANT	Northern Guam Lens Aquifer (NGLA) Monitoring System Rehabilitation Project for the Guam Water and Wastewater Infrastructure Improvements Program	
98% Complete	Activities/Notes: Bid opening conducted on 09/02/2020. Bid evaluations completed Received CCU approval last September 2020. Processing contract award.	
Project Description:	Work to be performed under this project consist of rehabilitation of ten	

	existing monitoring wells located on GovGuam or private property. Upon construction completion, all wells will be used to monitor water level and other groundwater characteristics of the NGLA.
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BOX KEY FOR PROJECT:

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

C. CIP Water Section

<u>INSPECTION</u> CIP PW 05-02	Inspection & Maintenance Repairs to GWA Island-Wide Steel Water Tank Reservoirs Phase 2 (DCA)	Start Date: April 2010
75% Complete	Activities/Notes: Remaining work is construction management services for the Tank Repair and Bypass Construction. Meeting conducted with DCA to discuss CM plan for the Tank Repair/bypass construction project. Agat Umatac Tank inspected July 2020.	Completion Date: To be determined (TBD)
CO 38C	Engineering inspection services	
Project Description:	The Court Order requires GWA to inspect all active and in some cases inactive water reservoirs. The inspection results will allow GWA to determine if a reservoir requires repair or replacement.	

<u>DESIGN</u> CIP PW 05-12	Brigade II BPS Upgrade (EM Chen)	Start Date: April 2012
100% Complete (Basis of Design) 99% Complete (Design)	Activities/Notes: Design plans and specs continue to be reviewed and revised.	Completion Date: TBD
N/A	Engineering design services	
Project Description:	The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to meet system head requirements.	

<u>DESIGN</u> PW 09-11	Northern and Southern Guam Reservoir Design (TG Engineers)	Start Date: May 2015
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85% Complete	Activities/Notes: <u>Ugum Reservoir</u> Design is at 90%. <u>Inarajan and Agfayan Booster Pump Station</u> Response letter sent to GFD this month. Biological Assessment and Archaeological report are pending. <u>Santa Rosa, Santa Rita, and Sinifa Reservoir</u> Under construction. See Santa Rosa, Santa Rita, and Sinifa Construction for update.	Completion Date: None. (Expected 6 months after Agfayan property issue is resolved)
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction. The tank locations are Ugum, Santa Rita, Santa Rosa, Inarajan and Sinifa.	

DESIGN PW 12-04	Central Guam Reservoirs Design (GHD Inc.)	Start Date: May 2015
88% Complete	Activities/Notes: <u>Tamuning No. 2 Reservoir and Tamuning Booster Pump Station</u> Design is at approximately 60%. Per Bobbie, property acquisition letter for Lot 1, Block 5, Tract 1427 has been signed by GM. Property owner has agreed on selling the said lot. Designer is proceeding with completing to 90% in 3 weeks. <u>Manenggon Reservoir and Access Booster Pump Station</u> Design is at 100% pre-final. Designer has resubmitted the 100% with revisions to GWA for review. Biological Assessment report completed. Archaeological report completed. <u>Piti Reservoir</u> DCA and GHD are working to put the bid package together. DCA has already completed the major steel tank repair plan and specifications. GHD is working on site utility plan and specifications. GWA has not submitted the Right of Way application to National Parks Services yet. GWA has received the final Dept. of Agriculture consultation response letter. Biological Assessment report has been completed. Archaeological report needs to be	Completion Date: TBD

	<p>completed before ROW application can be submitted. Archaeological report is pending.</p> <p><u>A23-A25 Deepwell (PFAS Treatment)</u> Water sampling test results received. Designer is working on finalizing site layout for A-23. Biological assessment will be scheduled for the sites. Layout sent to DPW for review and approval. DOI has approved grant funding transfer to this project. A23 and A25 MOU sent to DPW for signature.</p> <p><u>Tumon No. 1, Hyundai, Chaot No. 2 Reservoir</u> Under construction. See Tumon No. 1, Hyundai, Chaot No. 2 Reservoir Construction for update.</p>	
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction The tank locations are Hyundai, Pulantat, Chaot #2, Tumon #2, Piti & Tumon #1.	

DESIGN PW 09-03	ID/IQ for Professional Civil/Structural Services Task 1 – Tai Road/S-13 and Toto-Canada Road/Blas Street Waterline Replacement	Start Date: January 20, 2020
60% Complete	Activities/Notes: Design consultant submitted the 60% design work for GWA review and comment on 05/01/2020.	Completion Date: December 30, 2020
Project Description:	The project is intended to replace existing water main approximately 4,500 LF along Toto-Canada Road; 3,200 LF along Tai Road; 800 LF along S-13 Road; and 900 LF along Blas Street.	

CONSTRUCTION PW 09-03	Line Replacement Phase IV (Giant Construction)	Start Date: February 14, 2016
98% Complete	Activities/Notes: Connection of new pipes to the existing waterline at Hahasu and Famha has been completed. Contractor applied for building permit for Assumption Drive.	Completion Date: October 28, 2020
	Construction Services	

Project Description:	The project is intended to replace existing water lines that have been found by operations to be leaking and/or are causing service delivery to less than what GWA is required to provide. The project will replace water mains at ten known locations throughout the island and a component within the bid where line replacement work for unknown locations is accounted for.
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DESIGN PW 05-15	Asan Spring Rehabilitation Design (HDR)	Start Date: August 24, 2016
82% Complete	Activities/Notes: A CO no.2 has been routed to Finance for signature and pending GM's approval. The purpose for CO no.2 is to address the potential endangered species that may be located on the project site.	Completion Date: June 2022
	Engineering design services	
Project Description:	<ul style="list-style-type: none"> - Perform site visits and condition assessment for site conditions to determine demolition and rehabilitation requirement, process equipment condition, structural condition, and electrical system. Site condition assessment shall include all disciplines to execute the project. - Review and validate the current property boundary information to confirm the available space for the project development. - Perform an environmental impact study and prepare all required permits as needed. - Perform an archeological and historical resources study to identify potential impact to the project, prepare all required permits as needed. - Coordinate with Guam Historic Resources Division State Historic Preservation Office (SHPO) on historical resources study. Prepare all necessary reports and documents as required by SHPO. - Coordinate with Guam Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR) on vegetation clearance. Prepare all necessary reports and documents required by DAWR. - Identify the existing and projected service area, period of design. - Identify and recommend conceptual water treatment system. - Perform a Class 4 engineering cost estimate according to the American Association of Cost Engineers (AACE) International Cost Estimate Classification System for construction fee. Cost must include all disciplines, permit, construction and administration that are necessary to execute the project. All costs will be in current dollars and escalated to the estimated midpoint of construction. 	

CONSTRUCTION PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction (Pernix)	Start Date: December 1, 2016
99% Complete	Activities/Notes: Astumbo #1 (New Concrete): Contractor working on commissioning of the flow meter and tank level sensor.	Completion Date: October 31, 2018

	Construction Services	
Project Description:	This project will involve construction of two (2) 2MG concrete tanks and Booster Pump Station at the Yigo site and a one (1) 2MG concrete tank at the Astumbo site. Work will involve new pipe line, valves, electrical controls, pumps and motors, site drainage, paving, generator for the BPS, SCADA, etc.	

CONSTRUCTION MANAGEMENT PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction Management (GHD)	Start Date: December 2016
99% complete	Activities/Notes: Working to complete project close out requirements but due to additional time required by contractor the CM services required as well.	Completion Date: August 2019
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the demolition of existing steel elevate and ground tanks as well as the construction of the 2MG concrete tanks at the Yigo tank location and Astumbo tank location. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

CONSTRUCTION MANAGEMENT PW 12-04, PW 12-06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction Management (TG Engineers, PC)	Start Date: December 2017
80% complete	Activities/Notes: Performing CM duties.	Completion Date: TBD
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

CONSTRUCTION PW 12-04, PW 12-06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)	Start Date: February 8, 2018
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80% Complete	Activities/Notes: <u>Tumon No. 1</u> Tumon No. 1 online – 08/20/2020. St. John's PRV HEP permit approved by DPW. Pale San Vitores HEP pending DPW approval. DPW will not issue permit until St. John's PRV work is completed. <u>Hyundai</u> Contractor working on booster pump station and offsite pipe work. Hyundai (Barrigada Heights) tank is under leak test. Expected to go mid-October. Contractor working on Sabana water line. Tank is being prepared for disinfection and leak test. <u>Chaot No. 2</u> Chaot No. 2 tank online – 09/02/2020. Contractor working on A-series well, Dero Rd connection to Leo Palace line, chlorination system improvements and miscellaneous improvements.	Completion Date: TBD (Completion date has passed. Pending time extension for permit delays.)
	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

CONSTRUCTION MANAGEMENT PW 09-11	Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management (GHD)	Start Date: April 2018
0% Complete	Activities/Notes: NTP issued 10/03/2019. Pending permits with SHPO, GEPA and DPW. GWA is waiting on designer - TGE to provide archaeological port for Sinifa site. The remaining sites are still under review by SHPO. SHPO has responded on two sites. TGE/Search must address SHPO's comments. Stop order was issued for the CM until contract extension and fee negotiation. GWA and GHD discussing invoice payments before issuing Change Order no. 1.	Completion Date: TBD (currently February 21, 2021)
N/A	Construction Management services	

Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs: 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.
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CONSTRUCTION PW 09-11	Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction (AIC)	Start Date: October 2019
0% Complete	Activities/Notes: NTP issued 10/03/2019. Pending permits with SHPO, GEPA, and DPW. Clearing and Grading Permits, and Building Permit <ol style="list-style-type: none"> 1. Santa Rosa: Pending release by GEPA for submission to DPW for permit release. 2. Santa Rita: Pending release by GEPA. SHPO signature required prior to DPW submission. 3. Sinifa: Pending release by GEPA. SHPO signature required prior to DPW submission. 	Completion Date: TBD
	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction Services of three water reservoirs: 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

DESIGN PW 05-12	Pressure Zone Realignment and Tank Repair-Replacement (GHD)	Start Date: August 2018
Design will be done in Phases. Phase I - 100% (Design) Phase II - 60% (Design)	Activities/Notes: Designer submitted Phase II 60% plans on 08/04/2020 and reviewed by Water CIP Engineering team on 08/11/2020. Operations will also be providing information for further design progress. Engineering and operations to further investigate Phase II sites.	Completion Date:
N/A	Engineering design services	
Project Description:	The design project is intended to assess current and recommended pressure zones, and design and install control valves (PRVs, PRSVs) to properly control and measure system flow between zones. Scope also includes setting up pilot DMAs; and design for new or repaired water tanks needed to complete the court order tank requirements.	

CONSTRUCTION	Pressure Zone Realignment and Tank Repair-Replacement – Phase I (Sumitomo)	Start Date: December 17, 2019 (Notification of Award)
0% Complete	Activities/Notes: NTP issued 05/06/2020. Project sign has been installed at Kaiser site. Building permit is currently pending. DPW issued Building Permit on 10/06/2020 and retracted it shortly after. Plan revisions are back under review by Highway Encroachment. Permit continues to be pending. CCU Resolution No. 40 FY-2020 was passed 09/22/2020 awarding 2 additive bid items, Terao and Maimai PRVs, to SMCC.	Completion Date: May 6, 2021
N/A	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction Services for the installation of control valves (PRVs, PRSVs), piping, and related electrical upgrades to properly control and measure system flow between zones.	

DESIGN, CONSTRUCTION, CONSTRUCTION MANAGEMENT PW 09-11	Tank Repair and Bypass (DCA, AIC, GWA)	Start Date: May 1, 2020
5% Complete	Activities/Notes: Construction contract effective 04/21/2020. NTP issued 05/01/2020 with modified language for work starting onsite. Pre-Construction Meeting conducted. AIC has submitted permit to DPW. AIC, GWA, and DCA have been progressing with submittals and RFIs. Agat-Umatat, Yigo no. 3 and Astumbo no. 1 repairs ongoing. Bypass work at multiple sites ongoing.	Completion Date:
Project Description:	The work to be performed under this project consist of installing by-pass piping, valves, etc. ahead of certain tank inspection work. The operation of the by-pass will allow the tank inspector to determine appropriate repairs after which the contractor will proceed to repair the tank.	

DESIGN PW 09-02	New Well Site Development - Y-08, AG-10, AG-12 (GHD)	Start Date: September 2018 (Extension)
99% Complete	Activities/Notes: 100% plans and specifications were submitted on 06/04/2020. Change Order no. 8 to complete final plan set and engineer estimate is under negotiation with GHD.	Completion Date: TBD

N/A	Engineering Design Services	
Project Description:	The design project is intended to design 3 new wells to increase production capacity. The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, construction schedule, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction.	

CONSTRUCTION PW 14-01	Fire Hydrant Replacement Phase I (Mega United Corporation, Ltd.)	Start Date: October 19, 2019
0% Complete	Activities/Notes: Still in the process of acquiring the Building and Highway Encroachment Permit. Two more companies (Calpac & GEPA) needed to sign the permit documents before endorsement to DPW for Building Permit prior to construction.	Completion Date: October 25, 2020
Project Description:	The work performed under this project consist of replacing the dry barrel fire hydrants with wet barrel type fire hydrants. The replacement will involve removal of defective fire hydrant laterals, gate valves, hydrant stem and barrel and other appurtenances necessary to complete the project.	

CONSTRUCTION PW 05-07	Groundwater Well Production Meter Replacement Project (Giant Construction)	Start Date: April 29, 2020
5% Complete	Activities/Notes: - Endress Hauser W800 meter with GSM capability was approved 09/05/2020. - Change Order No. 1 in the amount of \$21,802.27 was approved. This covers \$36,168.10(+) for GSM feature and \$14,365.83(-) for deleted fittings. - Meters have been ordered 09/05/2020 - Building Permit received on 09/09/2020	Completion Date: June 28, 2021
	Construction services	
Project Description:	Work to be performed under this project shall consist of replacing the production well meters and associated well head piping. Construction management is performed in-house.	

D. CIP Wastewater Section

<u>CONSTRUCTION</u> WW 09-06	Bayside SPS Improvements Design (EMPSCO)	Start Date:
0% Construction Services	Activities/Notes: Submittal review ongoing. Concerns of adjacent property lot follow up by GWA's Land Agent. No standby generator on site to be used if island power shut down. Upcoming contract change request. Building permit application still in DPW for review. HEP application issued.	Completion Date: November 28, 2021
CO #3	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification to upgrade the Bayside Sewer Pump Station given the facility is in major disrepair and the adjacent river is eroding away the access road to the facility which is causing maintenance challenges and install underground power cable due to GPA's concern that existing power pole, located on the bank is at risk of being lost due to storm surges.	

<u>CONSTRUCTION</u> WW 11-04	Umatac-Merizo WWTP Design Build Improvements Project (CoreTech)	Start Date: June 2017
100% Design 100% Construction	Activities/Notes: - Final SCADA adjustment completed and verified 07/02/2020. Contractor preparing final invoice. Change Order no. 22 for time extension routing for CTHD signature. - Pending change order for the final payment amount which is being negotiated with the contractor.	Completion Date: January 6, 2020
	Construction services	
Project Description:	The project is intended to improve the aeration basin, construct a new sewer pump station, regrade the overland field, construct a new effluent storage tank and disinfection facility. The overland percolation terraces are being regraded to ensure appropriate distribution of effluent through the entire terrace.	

<u>CONSTRUCTION MANAGEMENT</u> WW 11-04	Umatac-Merizo WWTP Design Build Improvements Project (SSFM Inc)	Start Date: September 7, 2017
100% Complete	Activities/Notes: CM checked As-Built drawings and made comments. Final payment submitted to GWA. Project Completed.	Completion Date: January 2020
	Construction Management services	

Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the improvements works at the aeration basin, new sewer pump station, overland field improvements, effluent storage tank. The overall goal of the On-Site Representative is to ensure materials are installed and installation conforms to the contract plans and specifications and that all required testing is performed and passes.
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E. CIP Engineering Support

DESIGN EE 09-08	SCADA System for Water and Wastewater Facilities Phase A-1 (AECOM)	Start Date: June 11, 2015
100% Complete (Design) 84% Services during construction	Activities/Notes: Minimal support activities from Designer pending negotiation with G4S for settlement on claims.	Completion Date: November 2017 - Design December 11, 2019 - (Bid and Construction Support)
N/A	Engineering design services	
Project Description:	The A/E firm will design an integrated, robust and secure Supervisory Control and Data Acquisition (SCADA) system for GWA's water and wastewater systems, and to provide support services during bid and construction. The 22 sites will consist of a combination of water facilities such as production wells, reservoirs, booster pump station and wastewater sites include sewer treatment plants and sewer pump stations. Executed by approved change orders, number of sites in original design scope has changed from 22 sites to 19 sites and design of High Water Alarm for 20 critical sewer pump stations has been added. Scope also includes bid and construction support of the design-build project of GPWA SCADA EMS project.	

CONSTRUCTION EE 09-08, EE 09-09	SCADA Phase A1 Construction (G4S Security)	Start Date: July 13, 2018
80% Construction	Activities/Notes: Negotiation for resolution of claims and appeals with G4S is on-going.	Completion Date: December 31, 2019
	Construction services	
Project Description:	The work performed under this project procurement shall consist of Construction of SCADA ready instrumentation at several water and wastewater facilities throughout the island.	

CONSTRUCTION MANAGEMENT EE 09-08, EE 09-09	SCADA Phase A1 Construction Management (GHD)	Start Date: July 13, 2018
96% Complete (due to increased contract amount and unbilled balance)	Activities/Notes: Minimal support activities from CM pending negotiation with G4S for a settlement for settlement on claims.	Completion Date: August 31, 2020
	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the installation SCADA ready instrumentation at several water and wastewater facilities throughout the island. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

F. GIS Section

MAPPING MC 05-02	Island Wide Survey- (Duenas, Camacho & Ass.)	Start Date: December 2007
99% complete	Activities/Notes: Map regarding Airport Tank easement boundary is pending easement agreement with GIAA and final parceling map.	Completion Date: October 2019
	Survey services	
Project Description:	The contracted land surveyor is required to conduct title research, property valuation and mapping of property boundaries where GWA facilities are located, including the lots which are not registered under GWA's name.	

MAPPING MC 05-02	Island Wide Survey PH II - (Duenas, Camacho & Ass.)	Start Date: August 30, 2017
80% complete	Activities/Notes: First set of land registration maps (5): DCA performing field survey. First 2 land registration maps in GWA review process.	Completion Date: December 2019 - Request for extension sent to GM 10/29/2019 – due to myriad of reasons, extended periods of inclement weather, delays in DLM Survey review and approval of property maps and changes of additional scope of survey work.
	Survey services	
Project Description:	The work performed under this project procurement shall consist of a professional land surveyor conducting field work to mark corners of	

	existing government properties as a means of severing out portions of the larger property to be deeded to GWA. Surveyor shall also prepare all necessary maps and documents for recording at DLM.
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G. Permits SectionPERMITS
MONTHLY REPORT 2020

Description	2020												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Building Permit	23	22	23	1	1	8	31	15	5				129
Occupancy Permit	6	31	25	1	1	21	27	10	2				124
New Installation	4	17	15	0	0	9	10	12	21				88
Sewer Application	0	1	4	0	0	1	4	4	4				18
Sewer Inspection	0	0	1	0	0	3	1	2	2				9
Private Utility Acceptance	0	0	0	0	0	0	0	0	0				0
Relocation of Water Meter	0	2	0	0	0	0	1	4	0				7
Tapping-Water	1	5	3	0	0	0	2	2	11				24
Tapping-Sewer	1	5	3	0	0	0	0	0	2				11
Clearance-Water	14	10	20	12	12	18	20	46	12				164
Clearance-Sewer	14	10	20	12	12	18	0	0	0				86
Highway Encroachment	36	5	20	0	0	31	49	4	57				202
Verification of Utilities	6	6	1	1	1	1	12	12	7				47
Fire Flow Test	0	3	0	0	0	0	1	0	0				4
Schedule Water Outage	0	0	0	0	0	0	0	2	0				2

NOTE: Completed work orders for each calendar month are reported.

**AVERAGE PROCESSING TIME FOR COMPLETION (DAYS)
FOR THE CALENDAR MONTH OF SEPTEMBER 2020**

Description	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Building Permit							16	28	17			
Occupancy Permit							1	0	0			
New Installation							114	64	200 ^{a1}			
Sewer Application							2	0	0			
Sewer Inspection							35	79	1			
Private Utility Acceptance							0	0	0			
Relocation of Water Meter							42	181	0			
Tapping-Water							250	260	318 ^{a2}			
Tapping-Sewer							0	0	159 ^{a3}			
Clearance-Water							46	208	98 ^{a4}			
Clearance-Sewer							0	0	0			
Highway Encroachment							0	1	4			
Verification of Utilities							9	60	44 ^{a5}			
Fire Flow Test							22	0	0			
Schedule Water Outage							0	118	0			

Subscript comments are based on what occurred during the month of September

- a1** Several contractors involving a 14-unit apt bldg. and residences were not ready to schedule water meter installations until months later.
- a2** GWA Permits inspector advised work orders for customer's water meter applications were not closed until tapping, installation of private water service lateral line with valve and water meter installations were completed. Also, in September various government agencies were closed (DPW, GEPA) delaying contractor's work progress.
- a3** Contractors were not ready to schedule sewer tapping requests until months later.
- a4** Majority of clearance requests were submitted and delayed until the customers knew when their construction work would start.
- a5** VOU replies were delayed as other staff assignments increased during the PCOR1 lockdown in September 2020.


H. USEPA SRF Project Status Report

United States Environmental Protection Agency State Revolving Funds (USEPA SRF)

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

Percentage Key:

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

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

NOTE: Table below only reflects SRF projects that are still active. All other projects previously shown are on prior reports

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 10/05/2020
3	Asan-Adelup- Hagatna RT1 Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	2	12/11/2015	3/30/2017 for Design requirements	\$ 1,780,210.00	HDR	HDR assisting as needed. Working with CM to review CCTV, submittals as requested, and any variance requests. Also, Archaeological monitoring through HDR contract. HDR CO for archaeological monitoring and additional construction services approved by GWA. This CO will include design services for Phase II (Adelup to Hagatna).
			Construction	2	11/9/2018	3/8/2020	\$6,275,782.88	InfraTech	InfraTech (via Allied Trenchless) completed Cleaning/CCTV for areas they were able to access. CO#5 submitted to GWA for approval. Covers some additional work plus adds time. Continuation of point repairs at Ramona St. Pending SHPO approval of preservation plan. Plan being assembled by Archaeologist, CM and PM. Work on sewer crossing Rt.1 into the Asan Pump Station continues.
			Construction (Phase II)				\$ 4,000,000.00		Bid advertised on 06/16/2020. Bid submission date moved to 09/03/2020. Four Bids received. PPBC is the apparent low bidder. Low bidder responsibility being evaluated. Contractor was asked to provide information substantiating the liner company and liner worker experience to determine qualifications meeting the requirements specified.
			CM	2	8/3/2017	3/8/2020	\$ 870,610.41	DCA	Working with Contractor on schedule, submittals, responding to RFIs, and assisting in the negotiations of PCO costs.
4	RT2 Agat War in the Pacific Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	3	11/17/2015	3/30/2017 for Design requirements	\$ 316,681.00	SSFM	Providing designer support during construction. Final invoice submitted to GWA on 05/01/2020. Project is completed.
			Construction	3	8/31/2017	10/1/2018 (Contractor in LD period)	\$4,688,042.38	ProPacific	FOIA request. Currently gathering correspondence records and contract documents. PPBC needs to submit final CCTV and paperwork for review and acceptance of pipe between SMH 2 through 10. All work now completed. PPBC submitted a request for CO to resolve excess excavated materials, time extension, LD time, and other costs to BC. CO sent to GWA but prior to executing, the matter of LD assessment must be resolved. BC is working on this now. The final payment request is to accompany the change order to reconcile contract obligation amount. BC requesting final invoice from PPBC together with final As-Builts. BC working with GWA on assessment of LDs and Special Damages. Working on final payment quantities.
			Construction (Phase 2)						B&C working with HDR to prepare bid documents for RT1 Asan-Adelup-Agana PH2.
			CM	3	9/19/2017	10/1/2018	\$ 749,950.00	TG Engineers	Assembling close-out documentation.
5	Brown & Caldwell Project Management	T. Cruz	Design	4	3/24/2015	2/28/2019	\$ 2,640,220.00	B&C	Project underway.
			Construction				The project does not involve construction.		
			CM						

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 10/05/2020
7	Groundwater Wells Rehabilitation (F-3, A-2, A-7, A-12, D-5)	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	\$ 1,758,247.00	AECOM	Bid and Construction Support Services on hold until construction IFB is issued.
			Construction	4					Designer expected to submit revised bid package to GWA on 05/25/20. Bid package received from designer.
									Re-Bid Package, IFB was sent out on 08/04/2020. A Pre-Bid Conference was conducted virtually by GoToMeeting and scheduled on 08/18/2020 at 10am. Any RFIs must be submitted on or before 08/25/2020. All Bids will be accepted 3pm on 10/15/2020.
			CM	4					Addendum No. 2 was issued on 09/17/2020 to extend the bid opening to 10/15/2020 and issued the formal RFI Response No. 1 on GWA's website. Negotiations with SSFM have terminated on 08/05/2020. GWA to start negotiations with 2nd qualified consultant, DCA on 08/12/2020. DCA sent their Final Fee Proposal on 09/21/2020 in the amount of \$640,248.00. Pending contract agreement with DCA.
8	Tumon Sewer Hot Spots	Brown & Caldwell	Design	7	6/24/2016	10/30/2017 for design only	\$ 572,089.00	TG Engineers	TGE to provide engineering services during bid process.
			Construction	See Project 15	12/1/2018	12/31/2019	See Project 15	See Project 15	See Project 15
			CM	See Project 15	5/31/2019	5/31/2020	See Project 15	Am Orient	Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.
12	RT4 Relief Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	9	3/1/2016	4/22/2017	\$ 794,000.00	AECOM	AECOM assisting as needed.
			Construction	5	9/3/2018	6/30/2020	\$ 3,998,688.00	Insituform	Insituform/Mocon completed all CIPP and post-CCTV. GWA will not install "top hats" on the 4 reinstated service connections under this contract. This work will be added to Rt.1 phase 2 construction. CCU approved Change Order #5 to increase contingency authorization. Leaks from end of pipes in several manholes repaired by Mocon. Submitted Change Order #6 submitted to GWA for approval. Decision by GWA regarding LDs needed to process final payment.
				6	9/25/2018	6/30/2020	\$ 3,407,848.00	ProPacific	PPBC working on manhole rehab. Infiltration between pipe and liner entering the manholes has been fixed by Insituform. Installation of new main up- and down-stream from O'Brien intersection completed. Contractor completed all asphalt replacement and installed traffic sensors. DPW to connect sensor loops to light controls. Contractor submitted a request for change order for additional work resulting from existing utilities encountered. CM reviewed. BC sent CO#5 to GWA for approval. Pre-final inspections punch list deficiencies completed. Manhole rehab for MH6908 remaining. Installation of new manhole at Rt.4/Rt.1 complete, asphalt restored.
			CM	6	11/15/2018	12/31/2019	\$ 702,678.13	EMPSCO	Working with contractors on schedules, submittals, permitting, and contractor's request for additional time and costs. Also working with contractors in the field. Change Order #2 to extend CM contract authorized by CCU. Approval of CO forthcoming.

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 10/05/2020
14	Southern SSES Sewer Rehabilitation (Baza Gardens- Talofofo)	Brown & Caldwell	Design				The design was previously completed under bond funding.		
			Construction	8	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	\$ 1,189,815.00	ProPacific	<p><u>Santa Rita</u></p> <ul style="list-style-type: none"> • 401C application: GEPA approved 401 Certification. • Federal Consistency approved 11/25/2019. • SHPO – AMDP submitted. Waiting SHPO review. CatEx to be completed after approval. • Nationwide Permit: approved 06/27/2020. • Easement: Right of Entry signed by property owner. • GWA working with legislature to complete easement. <p>Construction</p> <ul style="list-style-type: none"> • Change order for the additional costs to use fusible PVC as forcemain in process. • Reviewing product submittals • Finalizing wet well design. <p>Design</p> <ul style="list-style-type: none"> • Conditionally approved design documents; BC writing controls specifications. • PPBC started DPW building permit. <p><u>Baza Gardens/Talofofo</u></p> <ul style="list-style-type: none"> • PPBC completed work for Change Order 4 on 11/04/2019. Processed invoice (\$2,845.36). • EMPSCO beginning closeout.
			CM	8	7/29/2016	5/28/2017	\$ 425,756.09	EMPSCO	<p>Will start close out process once invoice is processed. Pending PPBC submittal of construction photos.</p> <p>Negotiated Change Order for additional CM services covering project closeout amounts to \$6,067.66. Change Order executed by GWA on 03/28/2019 and transmitted to CM on 03/29/2019.</p> <p>A deductive change order will be issued to PPBC for the final amount of this change order after all CM services are complete.</p>
15	Tamuning Sewer Hot Spots	G. Gattoc	Design	10	9/9/2016	10/31/2017 (for design only)	\$ 663,629.00	TG Engineers	TGE to provide engineering support services during bid process and construction.
			Construction	9	1/30/2020	12/31/2020	\$ 1,093,955.87	Ian Corporation	<ul style="list-style-type: none"> • Contractor is working on Highway Encroachment Permit. The current PCOR1 lockdown is impacting permit processing. HEP dept. and DPW One Stop closed. Construction will start when the building permit is issued.
			CM	9	3/31/2019	3/31/2020	\$ 531,000.75	Am Orient	CM acknowledged Notice to Proceed (NTP).

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 10/05/2020
16 Talofoto Sewer Pump Stations (4 stations)	Design and construction of 4 sewer lift stations in the Talofoto village where sewer lines are installed but never completed.	J. Miller	Design (for Talofoto and Chalan Pago PS)	11	8/17/2016	11/30/2017	\$ 493,818.86	EMPSCO	Design of Talofoto Lift Stations • Final Design completed June 2018. Design of Chalan Pago Wastewater Pump Station • Final design documents submitted 06/08/2020. • Cost Estimate for construction is \$3.0M, more than double the previous \$1.4M estimate that we budgeted for. • GWA found over a dozen discrepancies with the Cost Estimate, and is having EMPSCO address it. EMPSCO revised the CE which brought it down to \$2.8M. GWA GM believes this is still too high for the proposed work, and further analysis is being conducted. • Cost estimates are being evaluated for the construction IFB. Need to finalize cost estimate prior to paying for final documents.
			Construction	10	12/27/2018	4/27/2020	\$ 2,411,418.00	Giant Const.	All Lift Stations: Per Contractor, GPA power hookup complete. Functional testing pending issues below. Startup and commissioning to follow if no issues encountered. GWA notified Giant of missing force main pressure gauges that need to be installed before functional test can proceed. Construction stopped during the DPHSS order halting all construction effective COB 09/11/2020 thru 09/15/2020.
			CM		12/1/2018	12/31/2019			GWA Engineering will manage construction management tasks.
18 Water Hydraulic Model (SCADA ready instruments to update Model)	Design and construction of instrumentation at key water sites in the Barrigada service area necessary to update GWA Water hydraulic model.	Barbara Cruz	Design	12	8/3/2016	3/15/2017	\$ 523,268.00	GHD	Design complete.
		J. Mendiola/G. Yeoh	Construction (Phase I)	12	8/3/2016	6/30/2020	\$ 4,532,000.00	Sumitomo	Permit process ongoing. PCOR1 has halted both the permitting process and contractor preparation for mobilization.
			CM		6/15/2019	6/30/2020			
23 Project Advertisement	Each IFB or RFP requires advertising	Engineering/Procurement	MISC	1			\$ 25,172.50	PDN/Post	On-going
24 Dungca Beach Sewer Improvements		GWA CIP Engr	Design						09/04/2020 GHD submitted cost proposal.
25 Hagatna Sewer Pump Station Force Main		GWA CIP Engr	Design						GHD to submit cost proposal after site inspection and review of As-built plans.
26 Fujita Sewer Pump Station Force Main		GWA CIP Engr	Design						RFP submittal deadline was 09/18/2020. The selection committee will review six proposals.
27 Well Rehab A-28, M-14, D-15 & F-7		GWA CIP Engr	Design						Draft scope of work with Chief Engineer for review.

\$ 65,741,613.02



Financial Statement Overview September 2020

The September 2020 Financial Reports and accompanying schedules will not be available for several weeks as the Finance Division prepares year end entries and accruals. We have already begun to provide information to our auditors and expect to have the audit timely completed.

The statements will be available for the November CCU meeting. However, some financial indicators are available and provided below:

Key Financial Indicators

Indicator	Target	Aug 2020	Sept 2020
Collection Ratio			
• Month to Date	*99%	89%	114%
• Year to Date	*99%	98%	99%
Days Billed	30	31	30
Employee Count	400 FTE	381 FTE	379 FTE
Water Demand			
• Month to Date	476,259	473,988	472,192
• Year to Date	5,715,108	5,268,011	5,740,204
Wastewater Flow			
• Month to Date	339,054	331,167	306,686
• Year to Date	4,068,647	3,725,878	4,032,564
Water Customers	42,724	42,992	42,838
Wastewater Customers	29,604	29,551	29,363

*Updated to reflect targets in Levels of Service

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

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

Collections in September have increased compared to August but are still behind pre-pandemic levels. A fuller report will be available next month.



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

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

We continue to monitor revenues and will adjust the cost containment plan as needed to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.

The FY21 budgets have been circulated to the various divisions. Work on the FY22-24 budgets will start shortly to support the rate plan updates that will be submitted in March 2021. The accompanying PUC required studies that will support the updated rate plan are ongoing and should be ready on schedule.

Guam Waterworks Authority		Date: 9/30/2020	 GUAM WATERWORKS AUTHORITY WATER DISTRIBUTION FACILITIES REPORT
		Time:	
REVIEWS			
TOTAL PUMPS INSTALLED	56	OVERALL AVERAGE	95%
TOTAL PUMPS OPERATIONAL	53	% OF OPERATING PUMPS	95%
TOTAL BOOSTER PUMP STATIONS	27		

Northern District													
NO:	FACILITY	PUMP HP	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
1	Yico	30	3	3	100%	OP	A						
2	Gayinero	20	2	2	100%	OP	A						
3	Mataguac	25	2	2	100%	OP	A						
4	Santa Rosa	15	2	2	100%	OP	A						
5	Hyundai	40	2	0	0%	OP	A	7-31-2020 New pumps installed, pending wiring for power and installation of SCADA.		PSRV installed for bypass and in operation.			
6	Chin. Palauan	5	2	2	100%	N/A							
7	Access	60	2	2	100%	OP	A						
8	Agana Heights	30	3	3	100%		A						
9	Nimitz Hill	7.5	2	2	100%	N/A							
10	Adawag	1.5	1	1	100%	N/A							
11	Pale Kiren	1	1	1	100%								
12	Ulloa/Untalan	1	2	2	100%	OP	A						
13	Latte Heights	15	2	2	100%	OP	A						
TOTAL = 13			26	24	92%								
pump availability =no of operational pumps/no of pumps*100%													

Central District													
NO:	FACILITY	PUMP HP	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	Pago	150 / 100	3	3	100%	OP	A						
2	Brigade	60	3	2	67%	OP	A	Pump 3 electrical controls need to be checked					
3	Windward Hills	200 / 75	3	3	100%	OP	A						
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	2	2	100%	N/A		Station to undergo renovations for tanks inspections					
6	Garnacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
Total=7			15	14	93%								
pump availability =no of operational pumps/no of pumps*100%													

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



Guam Waterworks Authority
VEHICLE FLEET STATUS
10/7/2020

EQUIPMENT STATUS				
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage
Backhoe (Leased)	3	3	0	100%
Dump Truck (Leased)	3	3	0	100%
Trailer (Leased)	3	3	0	100%
Backhoe	3	2	1	67%
Boom Truck	2	0	2	0%
Crane	1	1	0	100%
Dump Truck	1	1	0	100%
Forklift	6	4	2	67%
Fuel Tanker	1	1	0	100%
Heavy Duty	11	9	2	82%
Hoist Rig	1	1	0	100%
Jetter	1	1	0	100%
Light	156	127	29	81%
Mini Backhoe	2	1	1	50%
Pumper Truck	1	0	1	0%
Skidster	1	0	1	0%
Sludge Truck	5	3	2	60%
Tractor	2	2	0	100%
Tractor Mower	1	0	1	0%
Trailer	15	12	3	80%
Trencher	1	0	1	0%
Vacuum Truck	5	4	1	80%
Water Buffalo	2	2	0	100%
Water Tanker	5	5	0	100%
Compressor	1	1	0	100%
Total	252	176	47	

SUMMARY						
Operational	Operational w/Rprs Pending	Not in Operation-Accident (Docs Pending)	Not in Operation-Assessment Pending	Not in Operation-Repairs Pending	Not in Operation-Vendor Repairs	Recommend Survey
3	0	0	0	0	0	0
3	0	0	0	0	0	0
3	0	0	0	0	0	0
2	0	0	0	1	0	0
0	0	0	0	0	1	1
0	1	0	0	0	0	0
1	0	0	0	0	0	0
3	1	0	0	1	0	1
1	0	0	0	0	0	0
9	0	0	0	1	0	1
1	0	0	0	0	0	0
1	0	0	0	0	0	0
125	2	2	1	6	5	15
1	0	0	0	1	0	0
0	0	0	1	0	0	0
0	0	0	0	1	0	0
3	0	0	0	2	0	0
2	0	0	0	0	0	0
0	0	0	1	0	0	0
12	0	0	0	3	0	0
0	0	0	0	1	0	0
3	1	0	0	1	0	0
2	0	0	0	0	0	0
5	0	0	0	0	0	0
1	0	0	0	0	0	0
176	5	2	3	18	6	18

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Guam Waterworks Authority		Date: 10/6/2020	 WASTEWATER FACILITIES REPORT
REVIEWS		Time:	
TOTAL PUMPS INSTALLED	172	OVERALL AVERAGE	94%
TOTAL PUMPS OPERATIONAL	158	% OF OPERATING PUMPS	92%
TOTAL PUMP STATIONS	78		

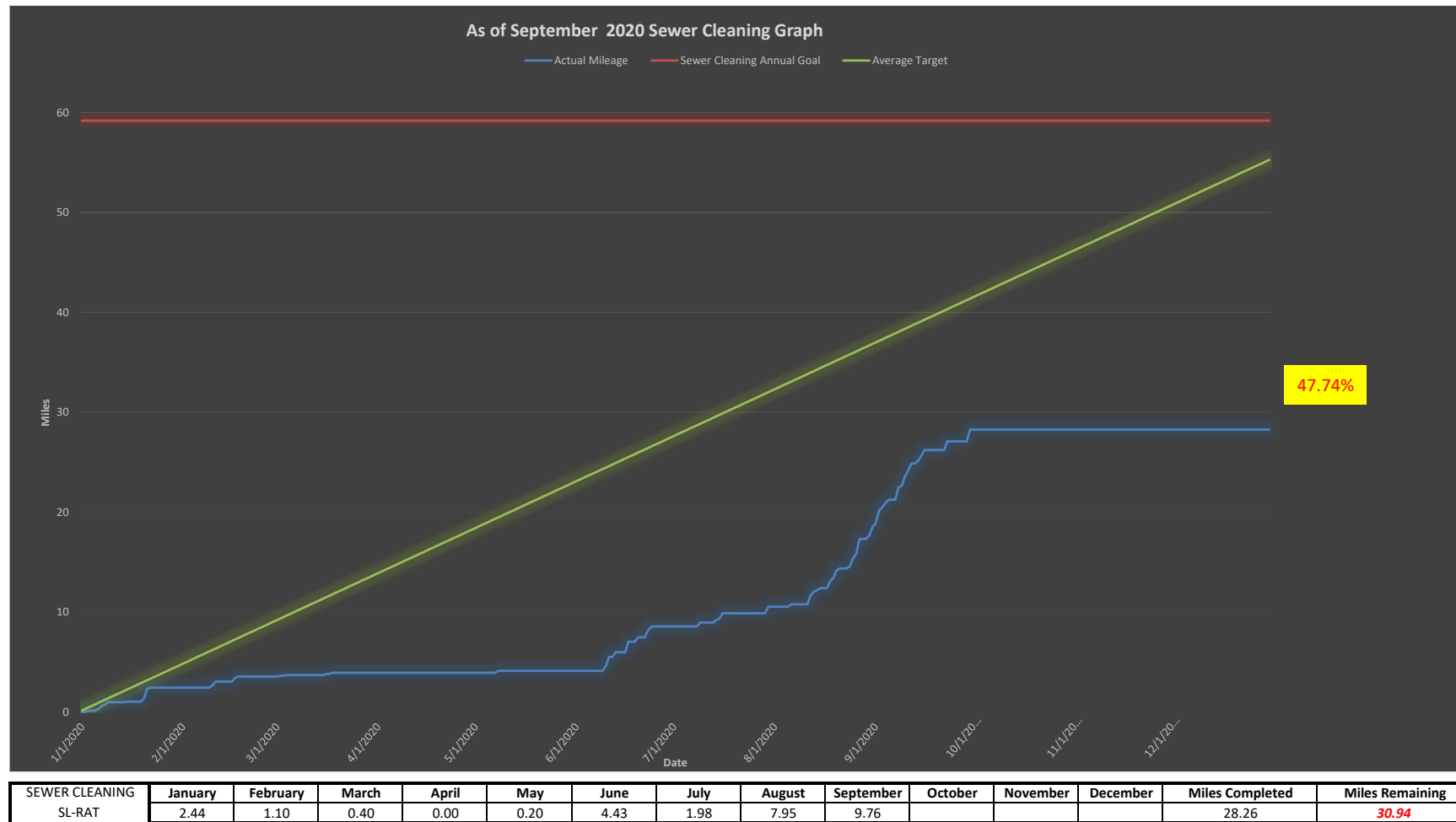
Northern District													
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	SOUTHERN LINK	1	4	3	75%	GPA	A	P#3: Back on line P#4: Needs Sensor @ Guam Motor		VED#4: Awaiting Repairs		Pending new pumps which are part of the Northern Treatment Plant upgrades	
2	FUJITA	1	4	3	75%	GPA	A	Pump #2 was secured due to sewer water in coolant chamber. Possible defective mechanical seal. Pending PO for pump removal and repairs.					
3	YPAO	1	2	2	100%	GPA	A	P#2 is for repairs @ JMI, utilizing MACHANAO pump and volute on line 2.					
4	PASEO DE ORO	1	2	2	100%	GPA	A						
5	HARMON	2	2	2	100%	GPA	A						
6	ROUTE 16	1	4	2	50%	GPA	M	P#4 secured, P#5 secured due to flapper in check valve loose.				(OR 36249) - Check Valves (OR 36239) - Plug Valves	
7	LATTE DOUBLE TROUBLE	1	2	2	100%	GPA	A	P#2 Awaiting Repairs @ Shop, P#2 installed 04-23-2020 pump came from station 11					
8	LATTE SUN RISE	2	2	2	100%	GPA	A						
9	LATTE SUBMARINE	2	2	2	100%	GPA	A						
10	LATTE PLANTATION	2	2	2	100%	GPA	A						
11	PGD	2	2	2	100%	GPA	A						
12	MACHECHE	2	2	2	100%	GPA	A						
13	HABA ADAI	2	2	2	100%	GPA	A						
14	YPAOPAO	1	3	3	100%	GPA	N/A						
15	PACIFIC LATTE	2	2	2	100%	GPA	A	P#1 awaiting rewinding, new pump installed on 20-10-2019					
16	YIGO	1	3	3	100%	GPA	A	Electrician secured P#3 due to light on on mini CAS (Temperature).					
17	ZERO DOWN	2	2	2	100%	GPA	A						
18	SANTA ANA	2	2	1	50%	GPA	A	P#2 burnt, in for rewinding	20-07-2324			Pending PO (OR36405)	
19	MACHANAO	1	2	2	100%	GPA	N/A	P#1 and volute being utilized at Ypao pump station, new pump installed					
20	FEMA 96	2	2	2	100%	GPA	A	Pumps 1&2 removed awaiting rewinding. Utilizing pumps from Haba Adai and Old Station 13 pump (B&J BLUE)					
21	ASTUMBO 1	2	2	2	100%	GPA	A	P#1 removed awaiting repairs, new pump installed 01-04-2020 on line 2					
22	ASTUMBO 2	2	2	2	100%	GPA	A						
Total	22		52	47	90%								

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Central District													
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	CABRAS ISLAND	1	2	2	100%	Portable	M						
2	COMMERCIAL PORT	1	3	3	100%	OP	A	P3 pump works, Standby					
3	PITI	1	2	2	100%	GPA	A						
4	ASAN	1	2	2	100%	GPA	A						
5	SINAJANA	2	2	2	100%	GPA	A						
7	NEW CHAOT	1	3	3	100%	OP	A						
8	ORDOT	2	2	2	100%	OP	A						
29	DERO	1	2	2	100%	OP	A						
9	CHALAN PAGO #5	2	2	2	100%	OP	A						
10	CHALAN PAGO #3	2	2	2	100%	OP	A						
11	FLORA GARDENS	2	2	2	100%	INOP	A						
12	DOUBLE SHAFT	1	3	2	67%	OP	A	Pump 2 removed due to impeller/Shaft broke				CIP write up for new pump/motor completed. At procurement pending review	
13	NAMU	2	1	1	100%	OP	A						
14	TAI MANGILAO	1	3	2	67%	GPA	A	P3 secured due to moisture sensor.	20-03-0868			Pending PO (OR 36406)	
15	MANGILAO	1	2	2	100%	GPA	A			Sump pump burnt and the breaker is damaged			
30	FIDIAN	2	2	1	50%	GPA	A	6/30/20 Pump 1 removed due to grounded	20-06-0049			PO 305301. Pending amendment due to worn impeller.	
16	LEYANG	2	2	2	100%	OP	A						
27	SAGAN BONITA 1	2	2	2	100%	OP	A	Pump was installed August 12, 2020					
28	SAGAN BONITA 2	2	2	1	50%	OP	A	P1 removed by maintenance Burnt				PO 305324 10/11/2020	
17	DARY	1	2	2	100%	INOP	A	P1 back online 7/29/20					
18	BARRIGADA	1	2	2	100%	GPA	A						
19	TOTO GARDENS	2	2	1	50%	INOP	A	Pump 2 removed awaiting repairs				10/15/2020 (PO 305166)	
20	MONGMONG	2	2	2	100%	OP	A						
21	CASMERU	2	2	2	100%	Portable	A			GPA RELOCATED GENERATOR			
22	MAITE	2	2	2	100%	GPA	A						
23	BAYSIDE	2	1	1	100%	INOP	A						
24	ALLUPANG	1	2	2	100%	OP	A						
25	MAMAJANAO	1	3	3	100%	OP	A						
26	Agana Main	1	4	3	75%	OP	A	P4 is on Line # 2 awaiting line 4 riser to be cleaned					
Total		29	63	57	90%								

GWA Work Session - October 13, 2020 - DIVISION REPORTS

Southern District													
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	GANN #1	1	4	3	75%	OP	MAN	9-25-20 P-2 secured due to pump tripping and reading over current. It was determined by maintenance team that possible bearing issue.					
2	PUMP STATION #11	2	2	2	100%	INOP	AUTO						
3	PUMP STATION #12	1	2	2	100%	OP	AUTO						
4	PUMP STATION #14	2	2	2	100%	OP	AUTO			Pumps are alternated weekly			
5	PUMP STATION #15	1	2	1	50%	INOP	AUTO	9-24-20 Maintenance team replaced original pump 1 with new Sulzer pump due to the previous pump was not displacing wet well level. Pending electricians to replace fuse on line starter to be able to activate new pump unit. 9-25-20 Electricians determined that new pump unit that was previously installed will not be able to be activated due to step-up transformer is not able to accommodate the power load. Electricians had recommended for maintenance team to install a lower H.P. pump unit. Pending maintenance teams to install.	20-09-1796	Pump #1 defective hourly meter.	20-05-1208	Generator Secured By OPA 4/18/20 due to Oil Leak.	
6	PUMP STATION #16	2	2	2	100%	OP	AUTO						
7	PUMP STATION #17	2	2	2	100%	OP	AUTO						
8	PUMP STATION #18	2	2	2	100%	OP	AUTO						
9	INARAJAN MAIN	1	2	2	100%	OP	AUTO						
10	INARAJAN LFT	1	2	2	100%	OP	AUTO						
11	TALAFOFO	1	2	2	100%	OP	AUTO	1-17-20 Electricians determined that the sump pump is grounded and was recommended to be replaced. Entered work order into Lucy requesting maintenance to replace.	SUMP PUMP 20-01-0731	6-6-19 Exhaust blower for wet well is defective and needs replacement. Requested for electricians to relocate the existing blower unit at the old Agut treatment plant wet well and install it at Talafufo.		11-5-19 \$10,140.00 New M.W. ventilation repair quotation was sent to Mary. All ventilation ducts needs to be fabricated and installed.	
12	PAGACHAO	2	2	2	100%	NONE	NA						
13	CHALGAN	2	2	2	100%	OP	MAN			Requesting for electricians to make assessments to ventilation system to make it operational.)	(Yerb- 19-12-0390)	12-23-19 Fred is working on getting a lift to be able to go to the roof top to make assessments on the motor.	
14	EJECTOR #2	2	2	2	100%	PORTABLE INOP	NA						
15	EJECTOR #3	2	2	2	100%	PORTABLE INOP	NA						
16	EJECTOR #4	2	2	2	100%	PORTABLE INOP	NA						
17	EJECTOR #5	2	2	2	100%	PORTABLE INOP	NA						
18	EJECTOR #6	2	2	2	100%	PORTABLE INOP	NA						
19	EJECTOR #7	2	2	1	50%	PORTABLE INOP	NA	9-4-20 Comp. motor#1 tripping. It was determined by the electricians that the compressor is the issue and is beyond repair. Electricians are recommending for compressor#1 to be replaced.	Comp. Replace 20-09-0714				
20	NORTH REYES	2	2	2	100%	PORTABLE INOP	NA						
21	LEYON #3 (DarDar)	2	2	2	100%	OP	MAN						
22	LEYON #4	2	2	2	100%	OP	AUTO						
23	MTL PUMP STATION	2	1	1	100%	PORTABLE INOP	NA						
24	Baza P/S	1	3	3	100%	OP	AUTO			Sumitomo 7-14-2020 working on valve leaks and bleeder valve replacement for pump #1			
25	Windward Hills	1	3	3	100%	OP	AUTO						
26	Aplacho	1	3	3	100%	OP	AUTO						
26			56	53	95%								
pump availability =no of operational pumps/no of pumps*100%													
1	Asian Bypass	1	1	1	100%			Pump from Sunrise Villa					
Total			1	1	100%								



5 miles a month required, 59.2 miles a year to complete for 2019 (296 miles to complete in 5 years)

59.2 miles x 5 years = 296 miles

296 miles / 5yrs = 59.2 miles a year required to be completed

59.2 miles / 12 months = 4.93 miles a month required to be completed

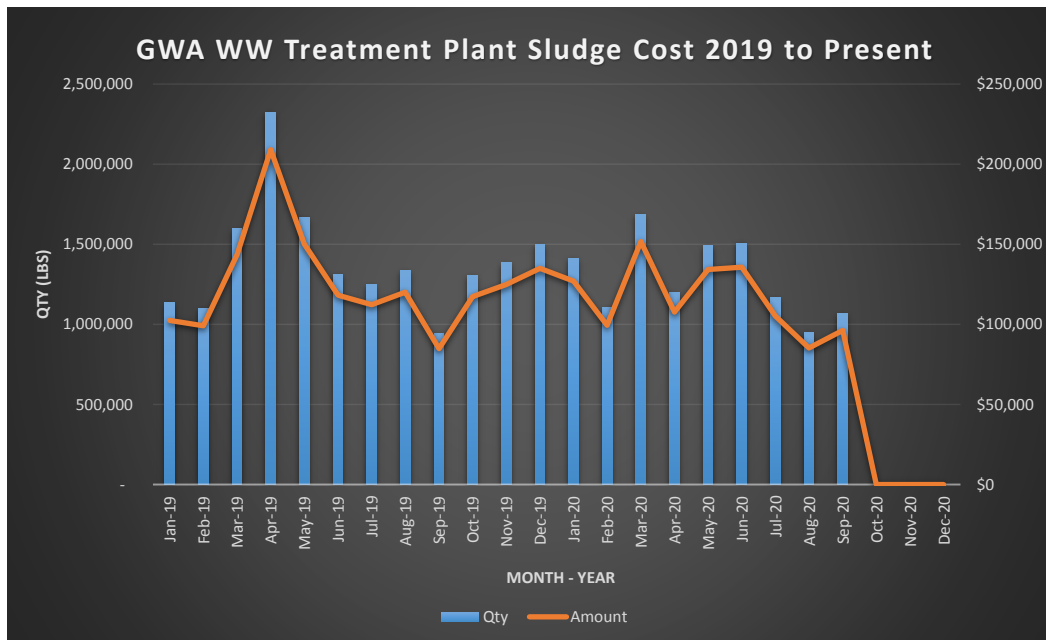
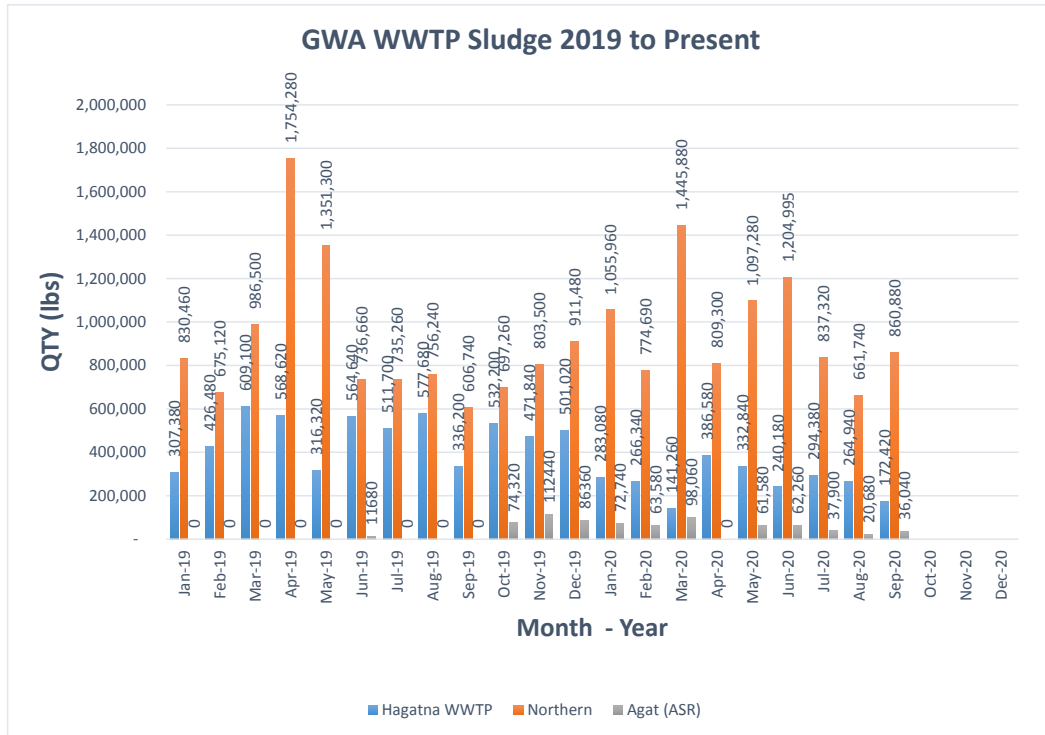
4.92 miles x 5,280 = 25,977.6ft. / 4 weeks = 6,494.4ft. Per week required to be completed

6,494.4ft / 5 days = 1,298.8ft required to be completed daily

GWA Work Session - October 13, 2020 - DIVISION REPORTS

	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
2019	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-19	307,380	\$27,664	830,460	\$74,741	0	\$0	1,137,840	\$102,406
Feb-19	426,480	\$38,383	675,120	\$60,761	0	\$0	1,101,600	\$99,144
Mar-19	609,100	\$54,819	986,500	\$88,785	0	\$0	1,595,600	\$143,604
Apr-19	568,620	\$51,176	1,754,280	\$157,885	0	\$0	2,322,900	\$209,061
May-19	316,320	\$28,469	1,351,300	\$121,617	0	\$0	1,667,620	\$150,086
Jun-19	564,640	\$50,818	736,660	\$66,299	11680	\$1,051	1,312,980	\$118,168
Jul-19	511,700	\$46,053	735,260	\$66,173	0	\$0	1,246,960	\$112,226
Aug-19	577,680	\$51,991	756,240	\$68,062	0	\$0	1,333,920	\$120,053
Sep-19	336,200	\$30,258	606,740	\$54,607	0	\$0	942,940	\$84,865
Oct-19	532,200	\$47,898	697,260	\$62,753	74,320	\$6,689	1,303,780	\$117,340
Nov-19	471,840	\$42,466	803,500	\$72,315	112440	\$10,120	1,387,780	\$124,900
Dec-19	501,020	\$45,092	911,480	\$82,033	86360	\$7,772	1,498,860	\$134,897
Grand Total	5,723,180	\$515,086	10,844,800	\$976,032	284,800	\$25,632	16,852,780	\$1,516,750

	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
2020	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-20	283,080	\$25,477	1,055,960	\$95,036	72,740	\$6,547	1,411,780	\$127,060
Feb-20	266,340	\$23,971	774,690	\$69,722	63,580	\$5,722	1,104,610	\$99,415
Mar-20	141,260	\$12,713	1,445,880	\$130,129	98,060	\$8,825	1,685,200	\$151,668
Apr-20	386,580	\$34,792	809,300	\$72,837	0	\$0	1,195,880	\$107,629
May-20	332,840	\$29,956	1,097,280	\$98,755	61,580	\$5,542	1,491,700	\$134,253
Jun-20	240,180	\$21,616	1,204,995	\$108,450	62,260	\$5,603	1,507,435	\$135,669
Jul-20	294,380	\$26,494	837,320	\$75,359	37,900	\$3,411	1,169,600	\$105,264
Aug-20	264,940	\$23,845	661,740	\$59,557	20,680	\$1,861	947,360	\$85,262
Sep-20	172,420	\$15,518	860,880	\$77,479	36,040	\$3,244	1,069,340	\$96,241
Oct-20		\$0		\$0		\$0	-	\$0
Nov-20		\$0		\$0		\$0	-	\$0
Dec-20		\$0		\$0		\$0	-	\$0
Grand Total	2,382,020	\$214,382	8,748,045	\$787,324	452,840	\$40,756	11,582,905	\$1,042,461



Wastewater Treatment Plant Average Monthly Flows Million Gallons Per Day

2019	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-19	4.50	6.10	1.40	0.39	0.05
Feb-19	4.80	6.20	1.80	0.40	0.10
Mar-19	4.30	6.00	1.10	0.40	0.05
Apr-19	4.35	5.81	0.80	0.40	0.04
May-19	4.49	5.87	0.80	0.39	0.05
Jun-19	4.59	5.56	0.87	0.39	0.04
Jul-19	4.69	6.04	1.06	0.39	0.05
Aug-19	5.57	6.53	2.61	0.39	0.22
Sep-19	5.30	6.41	2.80	0.39	0.15
Oct-19	4.83	5.62	2.93	0.39	0.12
Nov-19	4.88	5.86	2.13	0.59	0.13
Dec-19	4.52	5.69	1.43	0.41	0.08
2019 Average MGD	4.74	5.97	1.64	0.41	0.09
2019 Total MGY	1,728	2,181	600	150	33

2020	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-20	4.44	5.77	1.10	0.24	0.05
Feb-20	4.45	5.66	1.06	0.33	0.06
Mar-20	4.23	4.95	0.85	0.22	0.04
Apr-20	3.94	4.95	0.97	0.20	0.04
May-20	3.94	4.68	1.05	0.20	0.06
Jun-20	3.94	4.32	1.16	0.20	0.05
Jul-20	4.39	4.30	1.10	0.19	0.07
Aug-20	4.56	4.50	1.80	0.40	0.09
Sep-20	4.63	4.63	2.91	0.72	0.16
Oct-20					
Nov-20					
Dec-20					
2020 Average MGD	4.28	4.86	1.33	0.30	0.07
2020 Total MGY	1,562	1,775	487	110	25

*Agana flow estimated due to barscreen down and bypassed and bypass also includes flow meter. Estimate beginning May.

