

Messages & Communications Doc. No. 38GL-26-2686 through 2692.

From 38th Committee On Rules <committeeonrules@guamlegislature.gov>
Date Tue 8/4/2026 4:29 PM
To Guam Legislature Clerks <clerks@guamlegislature.gov>
Cc Frank Blas Jr. <speakerblas@guamlegislature.gov>

5 attachments (24 MB)

8426COMM Doc. No. 38GL-26-2686.pdf; 8426COMM Doc. No. 38GL-26-2688.pdf; 8426COMM Doc. No. 38GL-26-2687.pdf; 8426COMM Doc. No. 38GL-26-2689.pdf; 8426COMM Doc. No. 38GL-26-2690.pdf;

Håfa Adai Clerks Office,

Please see attached, **Messages & Communications Doc. No. 38GL-26-2686 through 2692** for processing:

✓	38GL-26-2686	Contractors License Board	Prior Year Obligations to pay National Office Supply in the total amount of \$288.00; to pay Xerox Corporation in the total amount of \$2,669.85*
✓	38GL-26-2687	Office of Public Accountability - Guam	Guam Preservation Trust FY2025 Financial Statements, Reports on Compliance and Internal Controls, Management Letter and the Auditor's Communication with Those Charged with Governance*
✓	38GL-26-2688	Judiciary of Guam	Guam Criminal Law and Procedure Review Commission 2026 2nd Quarter Report*
✓	38GL-26-2689	Judiciary of Guam	Judicial Council of Guam Regular Meeting Packet for July 16, 2026*
✓	38GL-26-2690	Guam Waterworks Authority	Revenues and Expenditures Report (Unaudited) for the period ending May 2026 and June 2026*
✓	38GL-26-2691	Guam Power Authority	Notification of Temporary Assignment or Detail – Theodore G. Tamashiro, Substation Electrician Leader, 6/28/26; James S.N. Tanguileg, Substation Electrician Leader, 8/15/26*
✓	38GL-26-2692	Office of Public Accountability - Guam	Acting Administrator Designation of Vincent Duenas, for the Office of Public Accountability from August 2, 2026 to August 7, 2026*

Please retrieve Doc. No. 38GL-26-2691 and 2692 from link below:

[Messages & Communications Physical Scanned Copy - Google Drive](#)

Kindly reply to this email.



Si Yu'os ma'åse',

Marie Crisostomo

Committee on Rules Assistant

COMMITTEE ON RULES

Vice Speaker V. Anthony Ada, Chairperson

I Mina'trentai Ocho Na Liheslaturan Guåhan

38th Guam Legislature

Disclaimer: The content of this email is intended for the person or entity to which it is addressed only. This email may contain confidential information. If you are not the person to whom this message is addressed, be aware that any use, reproduction, or distribution of this message is strictly prohibited. If you received this in error, please contact the sender at committeeonrules@guamlegislature.gov and immediately delete this email and any attachments.

Messages and Communications 38GL-26-2690*

2 messages

Speaker Frank Blas Jr. <speakerblas@guamlegislature.gov>

Fri, Jul 31, 2026 at 4:43 PM

To: 38th Committee On Rules <committeeonrules@guamlegislature.gov>, Sabrina Salas Matanane <office.senatorbri@guamlegislature.gov>

Håfa adai,

Please see attached M&C Doc. No. 38GL-26-2690

38GL-26-2690	Guam Waterworks Authority	Revenues and Expenditures Report (Unaudited) for the period ending May 2026 and June 2026*
--------------	---------------------------	--

*Si Yu'os Ma'åse'**Bernice Rivera*

Administrative Assistant

**Office of Speaker Frank F. Blas, Jr.**I Mina'trentai Ocho na Liheslaturan Guåhan 38th Guam Legislature

Guam Congress Building, 163 Chalan Santo Papa, Hagatña

(671)969-6456

speakerblas@guamlegislature.gov

Electronic Privacy Notice: This e-mail and any attachment(s), contains information that is, or may be, covered by electronic communications privacy laws and legal privileges, and is also confidential and proprietary in nature. If you are not the intended recipient, please be advised that you are legally prohibited from retaining, using, copying, distributing, or otherwise disclosing the information in this e-mail or any attachment in any manner. Instead, please reply to the sender that you have received this communication in error, and then immediately delete it. Thank you in advance for your cooperation.

----- Forwarded message -----

From: <sfcalumaya@guamwaterworks.org>

Date: Fri, Jul 31, 2026 at 2:22 PM

Subject: Guam Waterworks Authority - MAY & JUN 2026 Financial Reports (Unaudited)

To: <speakerblas@guamlegislature.gov>Cc: <tmaitano@guamwaterworks.org>, Gilda M Mafnas <gildam@guamwaterworks.org>, <ssantos@guamwaterworks.org>, Mercedes Ched Poliarco <mpoliarco@guamwaterworks.org>

Hafa Adai and Good Afternoon,

Please see attached GWA's financials for the month of May and June 2026 for submission.

Please let me know if you have any questions.

Thank You & Kindest Regards,

Shaine Calumaya**Finance-Accounting Division**

Gloria B. Nelson Public Service Building

688 Route 15, Mangilao, Guam 96913

Tel: (671) 300-6882 | Fax: (671) 646-2594

Email: sfcalumaya@guamwaterworks.org

4 attachments

 **Revenue and Expenditures Report to Speaker - MAY & JUN 2026 (SIGNED).pdf**
7929K

 **Revenue and Expenditures Report to Speaker - MAY 2026.xlsx**
68K

 **Revenue and Expenditures Report to Speaker - JUN 2026.xlsx**
68K

 **38GL-26-2690.pdf**
1051K

38th Committee On Rules <committeeonrules@guamlegislature.gov>
To: "Speaker Frank Blas Jr." <speakerblas@guamlegislature.gov>

Tue, Aug 4, 2026 at 8:42 AM

Håfa Adai,

Received, and thank you.



Si Yu'os ma'åse',

Marie Crisostomo

Committee on Rules Assistant

COMMITTEE ON RULES

Vice Speaker V. Anthony Ada, Chairperson

I Mina'trentai Ocho Na Liheslaturan Guåhan

38th Guam Legislature

Disclaimer: The content of this email is intended for the person or entity to which it is addressed only. This email may contain confidential information. If you are not the person to whom this message is addressed, be aware that any use, reproduction, or distribution of this message is strictly prohibited. If you received this in error, please contact the sender at committeeonrules@guamlegislature.gov and immediately delete this email and any attachments.

[Quoted text hidden]



Speaker Frank Blas Jr. <speakerblas@guamlegislature.gov>

Guam Waterworks Authority - MAY & JUN 2026 Financial Reports (Unaudited)

2 messages

sfcalumaya@guamwaterworks.org <sfcalumaya@guamwaterworks.org>

Fri, Jul 31, 2026 at 2:20 PM

To: speakerblas@guamlegislature.gov

Cc: tmtaitano@guamwaterworks.org, Gilda M Mafnas <gildam@guamwaterworks.org>, ssantos@guamwaterworks.org, Mercedes Ched Poliarco <mpoliarco@guamwaterworks.org>

Hafa Adai and Good Afternoon,

Please see attached GWA's financials for the month of May and June 2026 for submission.

Please let me know if you have any questions.

Thank You & Kindest Regards,

Shaine Calumaya**Finance-Accounting Division**

Gloria B. Nelson Public Service Building

688 Route 15, Mangilao, Guam 96913

Tel: (671) 300-6882 | Fax: (671) 646-2594

Email: sfcalumaya@guamwaterworks.org

Doc Type: 38GL-26-2690
OFFICE OF THE SPEAKER
FRANK F. BLAS, JR.
July 31, 2026
Time: 2:20 PM
Received:

3 attachments**Revenue and Expenditures Report to Speaker - MAY & JUN 2026 (SIGNED).pdf**
7929K**Revenue and Expenditures Report to Speaker - MAY 2026.xlsx**
68K**Revenue and Expenditures Report to Speaker - JUN 2026.xlsx**
68K

Speaker Frank Blas Jr. <speakerblas@guamlegislature.gov>

Fri, Jul 31, 2026 at 3:05 PM

To: sfcalumaya@guamwaterworks.org

Cc: tmtaitano@guamwaterworks.org, Gilda M Mafnas <gildam@guamwaterworks.org>, ssantos@guamwaterworks.org, Mercedes Ched Poliarco <mpoliarco@guamwaterworks.org>

Hafa Adai,

Confirming receipt of your email.

Si Yu'os Ma'åse'

Bernice Rivera

Administrative Assistant



Office of Speaker Frank F. Blas, Jr.

I Mina'trentai Ocho na Liheslaturan Guåhan 38th Guam Legislature

Guam Congress Building, 163 Chalan Santo Papa, Hagatña

(671)969-6456

speakerblas@guamlegislature.gov

Electronic Privacy Notice: This e-mail and any attachment(s), contains information that is, or may be, covered by electronic communications privacy laws and legal privileges, and is also confidential and proprietary in nature. If you are not the intended recipient, please be advised that you are legally prohibited from retaining, using, copying, distributing, or otherwise disclosing the information in this e-mail or any attachment in any manner. Instead, please reply to the sender that you have received this communication in error, and then immediately delete it. Thank you in advance for your cooperation.

[Quoted text hidden]



GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913

P.O. Box 3010, Hagåtña, Guam 96932

Tel. No. (671) 300-6846/47 Fax No. (671) 648-3290

July 29, 2026

The Honorable Speaker Frank F. Blas Jr.
38th Guam Legislature
I Mina'trentai Ocho Na Liheslaturan Guåhan
163 Chalan Santo Papa
Hagåtña, Guam 96910

Dear Honorable Speaker Blas,

Pursuant to Public Law 38-60, Chapter XIII, Part II, Section 4, transmitted herewith is Guam Waterworks Authority's Revenues and Expenditures Report for the periods ending May 31, 2026 and June 30, 2026. In addition, we are transmitting the Travel Expense Report for the Third Quarter of FY2026.

Senseramente,

Taling M. Taitano, CPA, CGFM, CGMA
Chief Financial Officer

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



38GL-26-2690
Messages and Communications

RECEIVED
COMMITTEE ON RULES
July 31, 2026

4:43 p.m.

Marie Crisostomo

GUAM WATERWORKS AUTHORITY
Statement of Revenues, Expenses and Changes in Net Position
For the period ending May 31, 2026 (unaudited)

	Month to Date	Year to Date
OPERATING REVENUES		
Water Revenues	7,301,215	62,820,554
Wastewater Revenues	4,557,960	39,506,555
Legislative Surcharge	366,436	3,181,874
Other Revenues	38,745	311,338
System Development Charge	125,367	1,006,114
Total Operating Revenues	12,389,723	106,826,434
OPERATING AND MAINTENANCE EXPENSES		
Water Purchases	483,686	4,627,290
Power Purchases	1,327,390	10,489,587
Total Utility Costs	1,811,075	15,116,877
Salaries and Wages	2,373,612	16,256,642
Pension and Benefits	947,093	7,389,422
Total Salaries and Benefits	3,320,705	23,646,064
Capitalized Labor and Benefits	(314,521)	(2,484,845)
Net Salaries and Benefits	3,006,184	21,161,219
Administrative and General Expenses		
Sludge removal	101,237	1,061,238
Chemicals	169,666	1,477,653
Materials & Supplies	236,358	1,710,239
Transportation	82,933	556,602
Communications	5,010	57,654
Claims	-	19,410
Insurance	160,194	1,254,553
Training & Travel	5,581	223,081
Advertising	4,707	39,157
Miscellaneous	158,071	1,493,540
Regulatory Expense	15,298	171,129
Bad Debts Provision	119,656	675,803
Total Administrative and General Expense	1,058,710	8,740,059
Depreciation Expense	2,345,105	18,882,772
Contractual Expense		
Audit & Computer Maintenance	177,006	1,176,606
Building rental	92,671	466,821
Equipment rental	154,197	368,342
Legal	-	18,439
Laboratory	24,696	514,461
Other	233,488	1,150,941
Total Contractual Expense	682,059	3,695,610
Retiree Supp. Annuities and health care costs	329,105	2,802,287
Contribution to Government of Guam	58,842	470,733
Total Retiree Benefits	387,946	3,273,020
Total Operating Expenses	9,291,079	70,869,556
Earnings (Loss) from Operations	3,098,643	35,956,878
Interest Income - Bond Funds	969,744	8,307,236
Interest Income - Other Funds	536,551	4,141,769
Interest Income - SDC	14,321	187,984
Contributions from Local Government	2,628	95,538
Interest Expense - Bonds	(3,405,277)	(27,170,428)
Federal Expenditures	-	(30,000)
Amortization of Discount, Premium and Issuance Costs	227,271	1,818,167
Defeasance due to bond refunding	(47,594)	(368,652)
Prior Year Adjustment	(1,007)	(197,910)
Legal settlements	-	9,427,010
Total non-operating revenues (expenses)	(1,703,363)	(3,789,286)
Net Income (Loss) before capital contributions	1,395,281	32,167,592
Capital Contributions		
Grants from US Government	497,629	5,710,564
Grants from GovGuam & Others	-	75,000
Total Capital Contributions	497,629	5,785,564
Change in Net Position	1,892,909	37,953,156

GUAM WATERWORKS AUTHORITY
Statement of Revenues, Expenses and Changes in Net Position
For the period ending June 30, 2026 (unaudited)

	Month to Date	Year to Date
OPERATING REVENUES		
Water Revenues	7,778,782	70,599,336
Wastewater Revenues	4,726,847	44,233,402
Legislative Surcharge	387,647	3,569,520
Other Revenues	623,182	934,520
System Development Charge	121,865	1,127,979
Total Operating Revenues	13,638,323	120,464,757
OPERATING AND MAINTENANCE EXPENSES		
Water Purchases	578,411	5,205,701
Power Purchases	1,307,896	11,797,483
Total Utility Costs	1,886,307	17,003,183
Salaries and Wages	2,099,181	19,219,823
Pension and Benefits	971,516	8,660,938
Total Salaries and Benefits	3,070,697	27,880,761
Capitalized Labor and Benefits	(275,565)	(2,760,411)
Net Salaries and Benefits	2,795,131	25,120,350
Administrative and General Expenses		
Sludge removal	78,464	1,139,702
Chemicals	277,462	1,755,115
Materials & Supplies	277,489	1,776,992
Transportation	81,145	637,747
Communications	11,271	68,926
Claims	-	19,410
Insurance	160,192	1,414,745
Training & Travel	92,780	315,861
Advertising	1,703	40,860
Miscellaneous	105,511	1,599,051
Regulatory Expense	37,317	208,446
Bad Debts Provision	84,475	760,278
Total Administrative and General Expense	1,207,810	9,737,133
Depreciation Expense	2,311,708	21,194,480
Contractual Expense		
Audit & Computer Maintenance	208,367	1,482,306
Building rental	74,352	591,173
Equipment rental	28,460	396,802
Legal	-	18,439
Laboratory	41,564	556,025
Other	251,132	1,402,073
Total Contractual Expense	603,875	4,446,818
Retiree Supp. Annuities and health care costs	306,682	3,108,969
Contribution to Government of Guam	58,842	529,575
Total Retiree Benefits	365,523	3,638,544
Total Operating Expenses	9,170,354	81,140,508
Earnings (Loss) from Operations	4,467,968	39,324,250
Interest Income - Bond Funds	970,668	9,277,826
Interest Income - Other Funds	557,576	4,775,999
Interest Income - SDC	32,693	220,677
Contributions from Local Government	-	95,538
Interest Expense - Bonds	(3,496,233)	(30,666,661)
Federal Expenditures	-	(30,000)
Amortization of Discount, Premium and Issuance Costs	227,271	2,045,438
Defeasance due to bond refunding	(47,594)	(416,246)
Prior Year Adjustment	19,476	(178,434)
Legal settlements	2,762,635	12,189,645
Total non-operating revenues (expenses)	1,026,492	(2,686,218)
Net Income (Loss) before capital contributions	5,494,460	36,638,032
Capital Contributions		
Grants from US Government	584,705	6,295,269
Grants from GovGuam & Others	174,753	249,753
Total Capital Contributions	759,458	6,545,022
Change in Net Position	6,253,918	43,183,054

Guam Waterworks Authority
FY2026 3rd Quarter Travel

Name of Traveler	Fund Source	Purpose of Travel	Conference/Meeting Dates	Cost
Watson, George	Revenue	NASTT No-Dig Show 2026	03/29/2026 - 04/02/2026	\$ 3,887.09
Terlaje, Llewelyn	Revenue	AWWA Rate Setting Essentials Training	04/06/2026 - 04/08/2026	\$ 4,901.58
Salayon, Ma. Teogenesa (Geigy)	Revenue	AM Peak Conference 2026	04/12/2026 - 04/15/2026	\$ 6,154.35
Bermudes, Lea Ann	Revenue	AM Peak Conference 2026	04/12/2026 - 04/15/2026	\$ 5,959.62
Santos, Sandra	Revenue	Spring 2026 Municipal Markets Client Training	04/21/2026 - 04/22/2026	\$ 3,163.70
Bordallo, Miguel	Revenue	USEPA Meeting/Guam Bond Investor Conference 2026	04/26/2026 - 04/27/2026; 04/29/2026 - 04/30/2026	\$ 5,820.61 *
Railey, Brett	Revenue	Guam Bond Investor Conference 2026	04/29/2026 - 04/30/2026	\$ 4,806.36
Taitano, Taling	Revenue	Guam Bond Investor Conference 2026	04/29/2026 - 04/30/2026	\$ 3,980.81
Santos, Francis	Revenue	Guam Bond Investor Conference 2026	04/29/2026 - 04/30/2026	\$ 3,452.18
Yeoh, Garrett	Revenue/PFAS design contract	2026 National PFAS Conference	06/08/2026 - 06/10/2026	\$ 440.00
Wu, Joseph	Revenue/PFAS design contract	2026 National PFAS Conference	06/08/2026 - 06/10/2026	\$ 572.74
Leon Guerrero, Jessey	Revenue/PFAS design contract	2026 National PFAS Conference	06/08/2026 - 06/10/2026	\$ 440.00
Lujan, Evangeline	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 5,698.52
Hecita, Theresa	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,393.67
Paulino, Josephine	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 5,875.93
Railey, Brett	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 7,613.21
Calvo, Jude	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,601.41 *
Carino, Rylma	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,903.74
Pangelinan, Vincent	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,961.70
Duenas, Keoni	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,754.62 *
Chargualaf, Joseph	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,754.62 *
San Nicolas, Thomas	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,925.78
Padilla, Kyle	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,918.83 *
Unchangco, Leilani	Revenue	AWWA ACE 2026	06/21/2026 - 06/24/2026	\$ 6,756.61
				<u>\$ 123,737.68</u>

* Travel report pending

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: George Watson	Title/Unit Position: Senior Engineer, Wastewater CIP
Travel Date Begin: 3/28/2026	Travel Date End: 4/3/2026
TA No.: 26-474	Travel Location: Palm Springs, California

Trip Objective:

Travel to Palm Springs, California for the NASTT No-Dig Show 2026 with a partial conference scholarship to learn more about trenchless technologies and new methods that can be appropriate for Guam. Conference dates from March 29 to April 2, 2026.

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

The trip to attend the NASTT No-Dig Show was informative and productive. I was able to communicate with various vendors, ranging from new trenchless technology vendors to engineering companies. I was also able to attend presentations on projects that could be relevant or similar to the situations we have in Guam.

Relevant topics included: New cameras and sewer assessment technologies, sewer CCTV AI companies and platforms, sewer cleaning technologies, horizontal drilling technologies, cured-in-placed-pipe (CIPP) technology, pipeline materials and other liner type technologies for rehabilitation or replacement, pipe bursting, slip lining, and similar technologies.

In addition to discussions with vendors on the abovementioned new technology topics, I was able to sit down with some pipe manufacturer vendors to get an idea of costs and material comparisons, as well as discuss the topic of AI in assisting with CCTV and assessments. I was able to meet with current engineering firms who are working on GWA projects to discuss in-person ongoing projects and the next steps.

All these are very relevant to our work here at GWA. With our agency in a Partial Consent Decree (PCD) with USEPA over the next ten years, the ability to accomplish our work and meet the goals and deadlines set by the PCD will be easier the more we can use the advancements within the industry. We are currently seeking to start using AI to assist with CCTV in our everyday work, and we already have used technologies like CIPP to help reduce costs and speed up the rehabilitation process while lessening the impact on our customers and the Guam community.

GUAM WATERWORKS AUTHORITY
Travel Report

George Watson Digitally signed by George Watson
Date: 2026.05.01 16:08:44 +10'00'

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY
Travel Report

Employee Name: Llewelyn Terlaje	Title/Unit Position: MA IV/ Bus. Unit 1105
Travel Date Begin: 4/5/26	Travel Date End: 4/10/26
TA No.: TA 26-475	Travel Location: Denver, Colorado

Trip Objective:

To attend the AWWA Rate-Setting Essentials seminar, which focuses on how to evaluate and develop financial policies and propose rates that are cost-based and equitable. Additionally, this seminar provides guidance on how to effectively communicate those policies and rate impacts to customers.

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

How the Objective Was Met:

The training objectives were accomplished through instructor-led presentations, case examples, and walkthroughs covering the full rate-setting process outlined in the seminar agenda. The seminar connected financial planning, cost-of-service analysis, rate design, and public communication, which is consistent with AWWA's stated purpose for the program.

What Was Learned:

The training covered various topics as follows: (1) Financial Management, Governance and Policies, (2) Capital Budgeting and Financing, (3) Developing a Cost-of-Service Study, (4) Allocation Procedures, (5) Distribution Procedures, (6) Cost-of-Service Case Examples, (7) Rate Design, (8) How to Effectively Present Your Rate Study, (9) Communicating with the Public, and (10) Fundamentals of System Development Charges.

Key takeaways from the training included:

- Rate setting is more than setting prices. It is a coordinated process that starts with governance, financial policies, capital planning, and long-term financial forecasting. Effective rate-setting must support adequate revenues, reserves, debt requirements, and capital improvement needs.
- The basic structure of a cost-of-service study includes functionalization, allocation, and distribution. These steps are used to assign costs to specific utility functions and then distribute those costs fairly among customer classes. Common methods such as the commodity-demand method and the base-extra capacity method were introduced. In reviewing GWA's last COSA, the base-extra capacity method was utilized.
- Customer classes can be evaluated using the cash-basis or utility-basis methods. Examples showed how revenue requirements are assigned to residential, commercial, municipal, and industrial customers and how cost-of-service results can reveal whether current rates reflect actual costs. It appears that GWA utilizes the cash-basis method.
- The training covered the goals and tradeoffs of rate design. Rates should be cost-based, fair, simple to understand, financially adequate, and stable, while also supporting affordability and conservation. Shawn recommends factoring these principles to help communicate goals of rate proposals. This is similar to what GWA has incorporated into the Septage Rate Study to help make a recommendation on the most beneficial rate design options. Discussions also included fixed and variable charges, minimum bills, tiered and seasonal rates, and approaches to reduce large rate increases.

GUAM WATERWORKS AUTHORITY
Travel Report

- Emphasis was placed on clearly presenting rate study results and communicating them to customers and decision-makers. Technical findings need to be explained in clear terms, especially since utility bills are often the main way customers receive information.
- The role of system development charges was explained as a separate tool to recover capacity costs related to growth. These charges help ensure fairness between existing and new customers, support system expansion, diversify revenues, and reduce pressure on rates or debt to pay for growth

How GWA Can Benefit from the Trip:

The seminar highlighted ways to improve GWA's rate-setting process. It emphasized the need to link financial planning, capital improvement planning, cost-of-service analysis, and rate design into a single, coordinated approach. Doing so can help ensure that GWA's rates are clear, well supported, and reflect the actual cost of providing service.

The training also provided insight on how to review cost recovery from different customer classes, evaluate rate impacts, and design rate structures that support adequate revenue while considering affordability, fairness, and revenue stability. The communication aspect of the seminar can also help GWA better explain rate changes to management, oversight bodies, and customers.

In addition, the session on system development charges may be useful as GWA considers options for recovering growth-related costs more fairly from new customers rather than placing those costs on existing ratepayers.

How the Trip Relates to Agency's Responsibility:

The trip supports GWA's responsibility to provide safe, reliable, and financially sustainable water and wastewater services at reasonable cost. Since rates are the main way the utility recovers costs for operations, maintenance, debt service, and capital projects, training on financial planning, cost-of-service analysis, and rate design is directly related to GWA's core duties.

The training also supports GWA's responsibility to ensure rates are based on sound methods, fairly applied across customer classes, and supported by clear analysis and documentation. It strengthens GWA's ability to explain rate decisions clearly to governing bodies, regulators, and the public. Overall, the seminar improved my knowledge and skills to better perform my duties that are directly applicable to GWA's work in financial planning and rate setting.

 4/20/26

Traveler Signature and Date



Travel Report

Employee Name: Geigy Salayon	Title/Unit Position: USA-Ops
Travel Date Begin: 4/10/2026	Travel Date End: 4/17/2026
TA No.: 26-476	Travel Location: Perth, Australia

Trip Objective:

Attend the Asset Management Council's AMPeak 2026 Conference

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) Please see attached Spreadsheet.

Geigy Salayon

Traveler Signature and Date



**Key Innovations from the Asset Management Peak Conference,
Perth Australia
April 13-16, 2026**

I recently attended the Asset Management Peak Conference in Perth, Australia, where I participated in a wide range of sessions on global best practices and emerging innovations in asset management.

While each session provided valuable insights, three initiatives stood out to me as highly impactful, practical, scalable, and directly aligned with advancing GWA's Asset Management maturity. These initiatives have strong potential to elevate our current practices to the next level, particularly in improving reliability, data-driven decision-making, and predictive maintenance capabilities.

These initiatives are not standalone improvements; they are complementary components of a more advanced, integrated Asset Management framework that will strengthen our ability to proactively manage assets, optimize lifecycle costs, and improve service delivery.

Specifically, the three key initiatives I am proposing for consideration are:

1. Deploy I-care wireless sensors to predict failures in wastewater pump stations (WWPS)

I-care offers advanced IoT-based condition-monitoring sensors (Wi-care) that continuously monitor asset health using key parameters, including **vibration, temperature, and mechanical behavior**. These sensors transmit real-time data to an AI-powered analytics platform (I-see), which processes large volumes of asset data to detect early signs of deterioration and predict potential failures.

The system operates as a plug-and-play wireless solution, enabling scalable deployment across multiple pump stations without extensive infrastructure requirements. It supports

continuous monitoring, eliminating reliance on periodic inspections and enabling near-real-time visibility into asset conditions.

Through advanced analytics and fault-detection algorithms (including vibration-based diagnostics), the platform can identify developing issues such as bearing wear, imbalance, or misalignment before they lead to failure. This allows maintenance teams to shift from reactive to predictive maintenance, prioritizing interventions based on asset condition and risk.

Industry results have shown that this approach can:

1. Avoid up to 99% of unexpected breakdowns
2. Reduce downtime by 10–20%
3. Lower maintenance costs by 35–45%

For GWA, deploying I-care sensors on critical wastewater pump stations would:

1. Provide early warning of equipment failure
2. Enable condition-based and risk-based maintenance planning
3. Improve asset reliability and service continuity
4. Support integration with existing systems (e.g., CMMS like JDE CAM) for automated work order generation and prioritization

This initiative directly supports GWA's transition toward a data-driven, predictive Asset Management framework aligned with ISO 55001 principles.

seal license

1 inch
nut pac



PREDICTING THE UNPREDICTABLE

I-care is a global leader in predictive and prescriptive maintenance. Our AI-powered and data-driven solutions predict industrial failures before anyone

Today, we are proud to say that I-care is one of the few in the world able to propose to its customer an end-to-end solution in Industrial Asset Health Management.

PREDICTING THE

Industry

Offering a complete transformation
Hardware enabled service delivery

Calibration & Measurement

For industrial measurement instruments and certification of production equipment and clean rooms



PREDICTING THE UNPREDICTABLE



two year period

1 in clear
4 in 100

WI-CARE 100 SERIES WIRELESS REMOTE CONDITION MONITORING SYSTEM



PLUG & PLAY MONITORING
TRUE WIRELESS
LONG BATTERY LIFE
ATEX/IECEX CERTIFIED

The Wi-care™ 100 series is a real plug & play wireless monitoring solution. It allows automated tracking of critical equipment, from 15-minute to once-a-week intervals, collecting reliable vibration data, with a resolution of up to 16,000 lines of resolution.

The 100 series sensors can be deployed and configured in minutes, permanently on specified equipment, or used portably for spot checks in a safer manner during programmed inspection routines, or for rapid commissioning/re-commissioning acceptance testing.

WI-CARE 200 SERIES SEMI-WIRELESS REMOTE CONTINUOUS CONDITION MONITORING SYSTEM



MULTI PURPOSE
MULTI TECHNOLOGY
4 DYNAMIC CHANNELS
SMART DATA CAPTURE
VARIABLE SPEED

WI-CARE 200 SERIES

TASTE THE MOST ADVANCED MONITORING TECHNOLOGY
IT STARTS HERE



240

The Wi-care 200 series Smart Machinery System is a continuous monitoring system composed of Wi-care 240 DAQ modules and is completely flexible in its configuration. The Wi-care 200 series extends on the Wi-care family of products from wireless to continuous monitoring solutions.

Signals will be sent directly from the Wi-care 240 module to the I-see platform via cellular communications. The DAQ not only processes up to 4CH vibration, but it can also process temperature, speed, and process data from 4-20mA and 0-24VDC sensor output sensors. These inputs can also serve as parameters from which conditional vibration collection can be collected.

HAND

provid
therm
and
specifi
HIKVis
surpris

- Up
- imag
- mea
- NET
- the
- cond
- AGC,
- enha
- Inter

VIBVUE

Uses hi

- The
- Non-
- and

Algorith

up to 10

- Filt
- 3m

VibVue

- 2.5µ

VibVue

- 5.0µ

The estimated implementation cost for 5 to 10 WWPS is \$190,000 for initial deployment and \$ 18K annually for monitoring. I verified with Jason T, and we don't have this installed at WWPS. I Care is willing to do a demo.

2. Standardize the capturing of equipment parameters to support asset performance and predictive maintenance

To strengthen GWA's transition toward predictive and data-driven Asset Management, it is critical to establish a standardized approach for capturing key equipment parameters across all critical assets.

This ensures that asset condition and performance are measured consistently, enabling reliable analysis, early fault detection, and informed decision-making.

Capturing equipment parameters in a structured and standardized manner allows GWA to:

1. Monitor real-time and historical asset performance
2. Detect early signs of deterioration
3. Support predictive maintenance and AI-driven analytics
4. Improve the accuracy of Probability of Failure (PoF) assessments

Alignment with ISO 55001 and ISO 55013

- ISO 55001 – Clause 7.5 (Information Requirements)
Defines what asset information must be captured to support decision-making
- ISO 55001 – Clause 9.1 (Performance Evaluation)
Requires consistent measurement of asset performance
- ISO 55013 – Data and Information Management
Ensures data is structured, reliable, and fit for purpose

Key Equipment Parameters to be Captured

For critical assets (pumps, motors, blowers, generators, etc.), standard parameters should include:

1. Mechanical Condition Parameters

- Vibration (overall and frequency-based)
- Temperature (bearing, motor, ambient)
- Noise and abnormal behavior

2. Operational Performance Parameters

- Run hours
- Flow rate and capacity
- Pressure levels
- Energy consumption (kW, efficiency trends)

3. Electrical Parameters

- Voltage and current
- Power factor
- Load variations

4. Failure and Maintenance Data

- Failure modes and root cause codes
- Maintenance history (preventive vs corrective)
- Downtime duration

Standardization Approach

1. Define Minimum Data Requirements (per asset class)

- Establish what parameters are required for each asset type
- Align with criticality and risk level

2. Integrate with Systems

Capture data through:

- Sensors (e.g., I-care)
- SCADA systems
- Manual inspections (standardized forms)
- Ensure integration with JDE CAM

3. Use Structured Data Formats

- Replace free-text entries with coded fields and dropdowns
- Standardize units, naming conventions, and formats

4. Establish Data Quality Controls

- Implement validation rules
- Assign accountability for data entry and verification
- Conduct periodic QA/QC reviews
-

Alignment with GWA Asset Management Objectives

This initiative directly supports:

1. Predictive Maintenance Implementation

Enables early detection and condition-based interventions

2. Risk-Based Decision Making

Improves accuracy of PoF using real operational data

3. AMP and Capital Planning

Provides defensible data for replacement and investment decisions

4. Level of Service (LOS)

Improves reliability and reduces service disruptions

Cost will be for more AM Data Analyst.

3. Implement AI-based asset condition assessment using Mentor APM Asset Lens

To modernize GWA's asset condition assessment and improve data quality across all asset classes, it is recommended to adopt Mentor APM Asset Lens (MentorLens) as a standardized, AI-enabled tool for visual inspection and condition data capture.

What Mentor APM Asset Lens Does

MentorLens is an AI-enabled mobile solution that allows field teams to:

1. Capture asset data using photos via mobile devices
2. Automatically extract nameplate and asset information
3. Perform instant visual condition assessment, including thermography
4. Generate digital asset records with standardized data fields

Instead of manual inspection and data entry, the system uses AI to process and validate data automatically, significantly improving efficiency and consistency.

Key Capability (Why this is critical for GWA)

1. Rapid and Accurate Data Capture

- 1.1 Traditional field data collection can take up to 30 minutes per asset
- 1.2 Mentor Lens reduces this to ~30 seconds using photo capture and AI processing
- 1.3 Eliminates manual transcription errors (e.g., nameplates, tags)

2. Standardized Condition Assessment

- 2.1 Provides consistent condition scoring based on visual evidence

2.2 Ensures all assets are assessed using the same criteria and format

2.3 Eliminates variability across inspectors and departments

3. Automated Asset Registry Improvement

3.1 Builds or validates asset inventory in real time

3.2 Ensures data is always current, complete, and reliable

3.3 Improves visibility of what assets exist, where they are, and their condition

4. Integrated AI and Visual Analytics

4.1 Uses image-based AI to assess deterioration (e.g., corrosion, damage)

4.2 Supports thermal imaging for early fault detection

4.3 Provides immediate insights for maintenance prioritization

Implementation Cost Approximately \$250,000



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Lea Bermudes	Title/Unit Position: Program Coordinator II
Travel Date Begin: 4/10/2026	Travel Date End: 4/17/2026
TA No.: 26-477	Travel Location: Perth, Australia
Trip Objective: Attend the Asset Management Council's AMPeak 2026 Conference	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) Please see attached Spreadsheet.	

Traveler Signature and Date



**Key Innovations from the Asset Management Peak Conference,
Perth Australia
April 13-16, 2026**

I recently attended The AMPEAK 2026 Conference in Perth, Australia. The conference brought together leaders and professionals in asset management, utilities, and infrastructure to highlight emerging technologies, best practices, and forward-looking strategies. My goal in attending was to focus on presentations centered on data-driven decision-making, and from the sessions I attended, four key areas emerged as the most impactful.

1. AI-Driven Asset Management System

A major theme was the integration of artificial intelligence into asset management platforms. These systems are evolving into predictive tools that:

Forecast failures, optimize maintenance scheduling and capital planning and improve prioritization of rehabilitation and replacement programs

Relevance to GWA:

AI-driven tools can enhance maintenance management, reduce costs for unplanned repairs, and improve long-term replacement planning.

2. Digital Twin Technology for Utility Systems

Digital twins—virtual replicas of infrastructure systems—are being used to model and manage complex networks:

Simulate flow dynamics and model system capacity.

Relevance to GWA:

Digital twins could support optimization of water distribution systems, pump stations, and wastewater networks and improve system reliability.

3. Smart Water Systems & IoT Integration

The expansion of smart infrastructure and IoT technology enables:

Real-time monitoring of system, early detection of leaks and system failures and data-driven performance tracking and reporting.



Relevance to GWA:

Implementation of IoT-enabled sensors can significantly improve system visibility and enhance response times for operational issues.

4. Information Management & BIM (ISO 19650)

The conference also highlighted the importance of structured information management using ISO 19650, which governs how asset information is created, managed, and transferred across the lifecycle of infrastructure projects.

Key elements include:

Use of a Common Data Environment (CDE) for centralized information sharing

Standardized data requirements from design through operations

Improved handover of accurate as-built information from contractors

Enhanced collaboration across engineering, construction, and operations

Relevance to GWA:

Adopting ISO 19650 principles would improve data consistency and reliability across capital projects, strengthen coordination between project delivery and operations, and support long-term asset management and digital transformation initiatives.

Overall Reflection

Gaining knowledge in emerging technologies such as artificial intelligence, IoT, and digital twin systems was particularly impactful in understanding the capabilities these tools can offer to enhance asset management programs and overall utility operations.

Equally impactful was the introduction to ISO 19650, which highlighted the importance of structured information management throughout the asset lifecycle. The concepts presented provided valuable insight into how improved data organization, standardization, and collaboration can strengthen project delivery and long-term asset performance. Moving forward, I am interested in exploring how ISO 19650 principles can be implemented within our asset management program to improve data consistency, integration, and decision-making.

I am grateful for the opportunity to attend the AMPEAK 2026 Conference and will apply the knowledge gained to support continued improvements in GWA's asset management and operational practices.

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Sandra J. Santos	Title/Unit Position: Controller
Travel Date Begin: April 19, 2026	Travel Date End: April 26, 2026
TA No.: 26-481	Travel Location: Los Angeles, California

Trip Objective:

Bank of America Spring 2026 Municipal Markets Client Training

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

I attended the Western Region Client Training Event held in Los Angeles, California, on April 21–22, 2026. The training provided an overview of the municipal finance industry and the lifecycle of municipal debt transactions, including municipal market fundamentals, financing structures and products, bond documentation, credit and rating agency considerations, underwriting, investor relations, and bond pricing methodologies. The program also included discussions on market participants and their respective roles in the issuance process, providing a broader understanding of how financing transactions are developed, marketed, executed, and managed.

The training included hands-on sessions covering bond structuring, debt service modeling, cash flow analysis, and financial calculations using Excel, as well as presentations on tender offers, commercial banking products, and the interpretation of financing reports. Attendance at this training enhanced my understanding of debt financing transactions from an accounting and financial reporting perspective, including the purpose and structure of key financing documents, the factors affecting debt service obligations, and the information necessary to properly account for and disclose debt-related activities. I especially appreciated the interactive nature of the training, which encouraged discussion and engagement with both presenters and participants from government agencies, utilities, and other public sector organizations across the country. These exchanges provided valuable opportunities to share experiences, discuss common challenges, and gain practical insights that can be applied to the Authority's financial reporting and debt management responsibilities.

 05/09/26

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Brett Railey	Title/Unit Position: AGME
Travel Date Begin: 4/27/26	Travel Date End: 5/2/26
TA No.: 26-469	Travel Location: NYC
Trip Objective: Attend GEDA Invest Guam Symposium. Meet with bond underwriters and investors ahead of upcoming \$100M bond refunding.	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) Bond Symposium consisted of 2 day program. First day was Gov Guam presentations to investors and underwriters. Included presentations by the Governor, DOA, BBMR, GPA, PAG, GWA and others. Presentations covered financial status and outlook – for the Government of Guam as a whole and for each individual agency in attendance. Day 2 was one-on-one meetings with individual investors, such as mutual funds that would be potentially interested in purchasing GWA bonds. Direct questions covered a range of topics including the pending Coretech lawsuit, non-revenue water projects and status, finances, and CIP. While I am aware that GWA has been borrowing money on the bond market for two decades, this was my first exposure to the inner workings of this process. As the AGME I expect I will continue to be more involved with this process moving forward.	



Traveler Signature and Date

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Taling M Taitano	Title/Unit Position: Finance / CFO
Travel Date Begin: April 27, 2026	Travel Date End: May 2, 2026
TA No.: 26-470	Travel Location: New York City, New York

Trip Objective: To present GWA's financial condition and capital improvement program to bond investors at the Invest Guam Symposium 2026 hosted by GEDA in New York City; to conduct one-on-one meetings with existing and prospective bondholders; and to meet with the Royal Bank of Canada (RBC) regarding GWA's application for a short-term construction revolving loan.

Day 1 – April 28, 2026: Venue Walk-Through and Setup Review

On the day prior to the symposium, presenters conducted a walk-through of the venue at the Orrick Herrington & Sutcliffe offices at 51 West 52nd Street, New York. The walk-through allowed the GWA team to familiarize themselves with the presentation room layout, audio-visual equipment, podium setup, seating arrangement for the audience, and the logistics of the panel format. This preparation ensured that GWA presenters were comfortable with the environment and could focus on delivering a polished and confident presentation on the day of the symposium.

Day 2 – April 29, 2026: Panel Presentation and RBC Meeting

GWA presented as part of the afternoon panel at the Orrick Herrington & Sutcliffe offices. The audience included bankers, bond analysts, and investors.

General Manager Miguel C. Bordallo and I served as co-presenters. Mr. Bordallo covered GWA's organizational overview, capital improvement program, consent decree compliance, PFAS response, water loss reduction program, and key legal matters. I presented the financial sections of the presentation, including GWA's historical operating revenues and expenses, cash reserves and liquidity position, rate setting framework, residential rates and customer collection performance, pro forma operating results and debt service coverage projections, and existing debt profile.

In attendance were Brett Railey, Assistant General Manager, Engineering, and representing the CCU, Chairman Francis E. Santos, Vice Chairman Pedro Roy Martinez, and former Chairman Simon A. Sanchez II.

Also on April 29, 2026, GWA met with representatives of the Royal Bank of Canada (RBC) to address questions related to GWA's application for a short-term construction revolving loan.

Day 3 – April 30, 2026: One-on-One Investor Meetings

GWA participated in one-on-one investor meetings held throughout the day on April 30, 2026. The GWA delegation included General Manager Miguel C. Bordallo, Assistant General Manager of Engineering Brett Railey, CFO Taling M. Taitano, CCU Vice Chairman Pedro Roy Martinez, and former CCU Chairman Simon A. Sanchez II.

GWA met with the following investors:

- MacKay Shields – Andrew Foust
- Nuveen – Lori McDonald
- Fidelity Investments – John Beardmore & Julia Sinkevich
- Vanguard – Simone Chen

The one-on-one meetings provided an opportunity for investors to ask detailed questions. The presence of CCU commissioners and Mr. Railey as a technical resource was well-received and allowed GWA to respond comprehensively to investor inquiries.

A separate meeting was held with Gresham Smith Partners, an engineering firm, who is currently doing work with GWA. Additionally, a virtual meeting was held with Pole Bridge Consultants to discuss the feasibility study for the upcoming bond issuance.

GUAM WATERWORKS AUTHORITY
Travel Report

Key Takeaways and Benefit to GWA:

- Investor engagement was substantive and focused primarily on GWA's debt service coverage trajectory, our debt profile, and the planned new money issuances in FY 2026 and FY 2029.
- Investors expressed interest in the progress of the Partial Consent Decree compliance program and PFAS remediation efforts.
- The forum provided GWA with an opportunity to directly address investor questions regarding outstanding legal concerns and water loss reduction program.
- The meeting with RBC advanced GWA's efforts to secure short-term construction financing, a key component of the CIP funding plan.
- Participation in IGS 2026 strengthens GWA's relationships with existing bondholders and supports GWA's ability to access the municipal bond market on favorable terms for its planned future financings.
- The event reinforces Guam's transparency and accountability to the investor community, which is directly in the interest of GWA as it prepares for significant bond issuances over the next several years.



5/5/2026
Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Trip Report

Employee Name: Francis E. Santos	Title/Unit Position: CCU Chairman
Travel Date Begin: April 24, 2026	Travel Date End: May 2, 2026
TA No.: TA26-479	Travel Location: New York City, NY

Trip Objective:

Chairman Santos to join GWA delegation, GM Bordallo, and CFO Taitano to attend the Bond Presentation and the GEDA Invest Guam Symposium in New York City.

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

The primary purpose of the InvestGuam Symposium 2026 in New York City was to unveil a \$1.3 billion five-year bond pipeline and pitch Guam to global financial leaders as a stable, investment-grade destination. Hosted by the Government of Guam and the Guam Economic Development Authority on April 29 and 30, 2026, the two-day event aimed to directly connect island officials with the U.S. municipal bond market to secure critical funding for major public projects.

Governor Lou Leon Guerrero delivered a technical overview of Guam's strategic growth following seven years of fiscal reform, showcasing its return to an investment-grade rating for the first time in 22 years. By demonstrating financial stability—including S&P Global Ratings upgrading Guam's long-term general obligation bond rating—officials pitched the island to lower interest rates on upcoming loans, saving taxpayers money. Officials detailed how Guam's utility systems survived recent weather events with minimal damage, proving the island is ready for permanent economic expansion and federal military buildup.

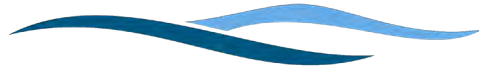
FE Santos 5/18/26

Traveler Signature and Date

Employee Name: Garrett Yeoh	Title/Unit Position: Senior Engineer, P.E.
Travel Date Begin: June 06, 2026	Travel Date End: June 11, 2026
TA No.: 26-482	Travel Location: Tucson, Arizona
Trip Objective: Attend 2026 National PFAS Conference	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) The objective of the conference is to exchange information, provide support to PFAS-affected communities, and facilitate engagement across diverse sectors involved with PFAS to accelerate protection of health and environment. The conference had leading scientists, regulators, attorneys, fire fighters, and community advocates presenting on various topics such as policy updates, latest exposure and health effect research, removal of PFAS from the human body, spent media destruction, etc. The following are some conference sessions attended: 1. PFAS Policy Initiatives 2. Updates on Sewage Sludge and Implications for Exposure 3. Health Effect Updates 4. Removal of PFAS from the Human Body 5. PFAS Sources and Transport through the Environment 6. PFAS Remediation in the Environment GWA benefits from this conference by learning advancement in remediation and treatment technologies, understanding exposure risk, up to date compliance requirements, and networking with other communities affected by PFAS.	

Garrett Yeoh
Digitally signed by Garrett Yeoh
Date: 2026.07.22 17:01:57
+10'00'

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Joseph Wu	Title/Unit Position: Senior Engineer
Travel Date Begin: June 6, 2026	Travel Date End: June 17, 2026
TA No.: 26-483	Travel Location: University of Arizona, Tucson, Arizona
Trip Objective: Three-day in person National PFAS Conference held at the University of Arizona in Tucson, Arizona.	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) The 2026 National PFAS Conference in Tucson, Arizona, gathered experts to address per- and polyfluoroalkyl substances. The event focused heavily on environmental justice, regulatory policy, and public health. Community-led initiatives took center stage, emphasizing the human toll of industrial contamination. For instance, grass-roots advocates presented struggles against thermal treatment facilities near schools in New York. Other presenters detailed a 40-year retrospective on Tucson's historic water contamination fights. Additionally, researchers tracked state-level compliance with apparel phase-outs. They uncovered persistent chemical usage in home textiles and pet products. Meanwhile, local governance studies highlighted extreme resource gaps in municipal enforcement. Tribal groups shared stories of contaminated traditional resources and subsistence harvests. These presentations underscored a critical need to center community voices in national policy decisions. Environmental researchers explored how these persistent chemicals move through air, soil, and water. Multiple studies examined the retention of compounds in unsaturated zones. They specifically targeted the air-water interfacial area to predict groundwater contamination risks. Advanced field monitoring introduced new tools like machine learning frameworks for surface water prediction. Scientists also demonstrated rapid screening methods using tree bark biomonitoring in Ohio. This proved to be a cost-effective alternative to powered active air sampling. Furthermore, testing in the Ohio River Basin revealed an alarming prevalence of ultrashort-chain variants like trifluoroacetic acid. These variants remain poorly characterized by standard analytical methods. Medical and epidemiological cohorts revealed widespread human exposure and severe biological risks. Exposure pathways extended far beyond drinking water. Traces were confirmed in commercial beers, disposable facemasks, and prescription contact lenses. In clinical cohorts, elevated serum levels strongly correlated with altered liver and kidney functions. Specific variants were linked to hepatic steatosis in aging Hispanic populations. Other research tied exposure to reduced bone mineral density and impaired bone formation. On a cellular level, chronic exposure was shown to modify mouse reproductive toxicity during adolescence. It also promoted structural enhancements in mitochondria, directly driving chemoresistance in ovarian cancer cells. Finally, toxicologists noted that the mammary gland is highly sensitive to disruption, leading to shorter breastfeeding durations. The final core theme addressed cutting-edge technologies to remove these "forever chemicals" from the environment. Conventional extraction is highly energy-intensive and expensive. To replace these methods, engineers evaluated less labor-intensive in-situ remediation options. Studies tracked the aging and long-term performance of colloidal activated carbon injectables within real-world aquifers. Researchers also introduced a novel, high-affinity cationic colloidal polyaniline. This material exhibited significantly improved adhesion to sand compared to commercial resins. To address highly mobile short-chain variants, chemists engineered specialized quaternary ammonium hydrogel adsorbents. Lastly, software developers introduced Excel-based analytical modeling tools. These models help civilian and military facilities simulate soil-to-groundwater leaching to calculate site-specific screening levels. GWA can directly benefit from this conference research to fulfill its core responsibilities of providing safe drinking water, maintaining regulatory compliance, and protecting public health. Specifically, by utilizing the newly developed, free Excel-based "PFAS-LEACH" analytical tool and site-specific soil screening models, the agency can accurately simulate soil-to-groundwater leaching and anticipate incoming contaminant loads before they reach municipal wells. Insights into cutting-edge, low-cost technologies—such as anti-biofouling quaternary ammonium hydrogels that filter highly mobile short-chain PFAS or high-affinity polyaniline injectables for in-situ aquifer sequestration—provide the agency with practical, scalable treatment alternatives to traditional, energy-intensive pump-and-treat systems.	


07/22/26

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY
Travel Report

Employee Name: Jessey Leon Guerrero	Title/Unit Position: Associate Engineer
Travel Date Begin: 6/6/26	Travel Date End: 6/12/26
TA No.:	Travel Location: Tucson, Arizona

Trip Objective:

The CIP Water team, attended the conference to stay informed on evolving regulations and treatment options, and learn from real-world case studies to support informed decision-making regarding plans for water treatment.

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

This benefits the agency by having the engineering team up to date about improved technologies for treatment, regulatory changes, and resources for affected communities. This supports proactive planning to address not only PFAS/ PFOA concerns on island but other contaminants as well. The trip directly supports the Water Agency's responsibility to provide safe drinking water by continuing its ability to maintain compliance, protect public health, and sustainably manage emerging contaminants in Guam.

Jessey Leon Guerrero
Digitally signed by Jessey Leon Guerrero
Date: 2026.07.24 12:43:50 +10'00'

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY
Travel Report

Employee Name: Evangelin D. Lujan	Title/Unit Position: Senior Regulatory Analyst
Travel Date Begin: June 20, 2026	Travel Date End: June 30, 2026
TA No.: 26-471	Travel Location: Washington, D.C.

Trip Objective:

The objective of the trip is to attend the AWWA ACE 26 annual conference. The conference had many sessions related to implementing and monitoring emerging issues related to compliance with USEPA regulations for lead and copper rule and upcoming requirements for PFAS.

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

I attend over 12 educational sessions. Each session has three presentations. At times, I left one session to attend another session that had a presentation that was more relevant to compliance issues.

The sessions I attended were very valuable. The sessions primarily were related to the issues utilities are encountering in implementing the requirement for PFAS to include monitoring and treating source water that exceeds the MCL with PFAS. For GWA, this is a critical issue as many of our wells have increasing PFAS detection. Currently, GWA will mitigate PFAS through the use of GAC systems. Many jurisdictions are facing similar issues on what disposal of used GAC material. Currently, GWA will send off island to a company that will dispose of the medium. However, several jurisdictions are using a lined quarry to store used GAC material. Regeneration of the GAC material is an emerging technology to address disposal of GAC material.

There were several presentations on the Foam Fractionization Method (SAFF) to reduce the amount of residual material that still needs to be disposed of. SAFF is cost effective.

A critical gap in PFAS data is the variability of the presence of PFAS in the nations' water supply. Some of the variability is related to the laboratory doing the analysis. One of the issues that are being brought up what is causing variability in PFAS data versus the sources of PFAS. Sources of PFAS are numerous including household cleaning products, laundry detergent, carpet cleaning. PFAS is detected in almost everything that we use and is showing up in wastewater. PFAS will need to be better monitored in Pretreatment Programs. Interestingly, 10% of the entire nations' water supply has PFAS.

I also attended several sessions related to the compliance with USEPA's Lead and Copper Rule. Although lead was not used for most of GWA's waterlines, it is a requirement to have an inventory of lead water lines that are used in customers' homes and commercial facilities is a requirement. A Lead service line dashboard will keep the public informed.

I also attended a session on Pipe line Assessment Condition. There are new technologies that are available to conduct pipe assessment that is non-invasive using sound waves. When conducting a pipeline assessment, age of the pipe is not the only condition to consider. In the US, pipe replacement is about \$1.5 million per mile. In Guam it seems like it is at least 3x.

I also attended a few sessions on communicating with the public under pressure. One of the big take aways from the sessions is that TRUST needs to be built with the customers long before any issues or problems arise. Here are some important lessons:

- You can't talk to your customers – only when there are problems, when you are increasing their rates or if there is a crisis
- Silence is not a strategy. Starting the facts is not a strategy.



Travel Report

- When customers is under pressure, there is an increasing emotional response. They cannot hear logic and technical messages.
- Your customers don't care if they think you don't care. What they want to know is if the utility cares about the plight they are in and what we are doing to fix it.
- Use story telling to get the message across
- See how you are doing as a utility through the customers' eyes
- Everyone in the utility needs to know the top three messages.
- Messages cannot start with the federal regulations such as our water meets all federal regulations.
- Need to find out what your customers care about.
- Silence isn't buying time; it is allowing people to make up their own story.
- If you don't explain the issue – someone else will and it will be wrong. Do not dumb down the information. People can handle technical information.

Many of the issues discussed will be helpful when we must address issues like Dieldrin and other emerging contaminants.

There are many things that I learned from the sessions I attended that I could implement in the work under Compliance and Safety. I deal with issues related to PFAS, Lead and Copper. I also am part of the team who response to Dieldrin, PFAS and other remerging contaminants.

Evangeline D. Lujan

7/17/2026

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Theresa E. Hecita	Title/Unit Position: Utility Lab Tech. Leader/Laboratory Division
Travel Date Begin: June 19, 2026	Travel Date End: June 27, 2026
TA No.:	Travel Location: Washington, D.C. U.S.A.
Trip Objective: Attend AWWA ACE26 conference held at the Walter E. Washington Convention Center (June 21 – 24, 2026)	

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

This trip relates to agency responsibility because organizations have the ability and the resources to provide employees with the access to educational tools or materials that can help aid employees to better perform tasks. Part of going to the AWWA ACE conference is to network and stay up to date with current trends and technologies.

The expo at the conference is an opportunity to speak with other companies throughout the United States that provide services pertaining to water treatment, distribution, testing, and data input into software. I particularly liked finding out that Idexx, a company that the lab places orders from, has other products that could be useful for the lab, and that other companies exist that provide products that are more advanced than the current units used in our laboratory. GWA can benefit from this trip because by networking with other companies, when employees return back to Guam, we can follow up with people regarding products and services that we were interested in, and if successful, be able to procure the goods we find useful. GWA employees also benefit because the conference is a great opportunity to learn more about trends in water. There are educational seminars available where speakers discuss their experiences and studies conducted. I focused on finding the discussions related to advanced water treatment and water quality. A water treatment seminar I watched was entitled "The Future of Water Treatment: Residuals Management and How Dayton Ohio Leads the Way with Lime Recycling and Recalcination" The presenters talked about how water treatment plants have different parameters when dosing water for treatment depending on weather and environmental conditions, and that they tested and successfully managed to recycle chemicals in use for water treatment, thereby effectively cost cutting and saving the city millions of dollars annually in operational costs. And a water quality seminar I watched was entitled "Forests as Filters" where presenters talked about land stewardship; monitoring farmlands and state parks for flora and fauna and educating land owners to protect forests from invasive species and community involvement in the reporting of strange activity. These are all safeguards to protect the forest, since trees act as natural filters that help preserve the quality of source water. I was also interested in attending the seminars pertaining to current problems Guam is facing. One such problem is perfluorooctanoic acid/perfluorooctane sulfonate (PFOA/PFOS) found in some GWA groundwater wells. Our GWA laboratory currently monitors and tests certain wells that at one point, exceeded the maximum contaminant level (MCL) designated by U.S. Environmental Protection Agency (U.S. EPA), but are currently treated using granulated activated carbon (GAC) systems to remove PFOA/PFOS effectively. One such presentation was entitled "PFOA in Evanston's Raw Water & Finished Water". Presenters talked about the different methodologies they used to treat PFOA in their water until they found the one that best worked for them. They first conducted jar testing, rapid small-scale column, and bench-scale membrane testing to determine how much PFOA/PFOS was present in their water. Then they discussed PFOA/PFOS removal methods they tried to treat their water. The methods they tested are foam fractionation, AIX, RO PFAS rejection, PAC, the use of fluorosorb, and GAC. Foam fractionation for polyfluoroalkyl



GUAM WATERWORKS AUTHORITY

Travel Report

substances (PFAS) removal from membrane concentrate, is a chemical process that separates molecules from liquid solutions using rising air bubbles. Anion exchange (AIX), is a method that uses resin beads to remove negatively charged contaminants. Reverse osmosis (RO) PFAS rejection, uses RO water filtration systems to filter out PFAS. Powdered activated carbon (PAC), is a polymer that acts as a coagulant that neutralizes negatively charged suspended particles so that they bind together to form larger solids called floc, and then filtered out with the contaminants. Fluorosorb is an adsorbent that captures and binds PFAS from contaminated drinking water and groundwater. And like GWA, they treated water with GAC systems, a process that purifies water through adsorption, where the impurities bond to the carbon. It was determined that AIX, PAC, GAC, and fluorosorb effectively treated PFOA and PFOS, but GAC demonstrated the most co-treatment benefits of the tested medias. From the educational seminars, I learned ideologies and methodologies that I am not exposed to as an employee of GWA laboratory. I feel that the seminars has helped me to see that there are other ways to treat water and that these pilot studies are effective in determining the best approach to treat water quality issues in different seasons and climates throughout the U.S. And I was able to see that the water industry is progressive and over time, technology will keep improving to ensure that water and the access to drinking water will remain safe for people and the environment.

Overall I feel that the objective of attending the AWWA ACE26 at Washington, D.C. was met. It was not only a great opportunity to network and get information on products to improve operations in GWA laboratory, but I felt I learned a great deal of other aspects of water utility operations such as distribution, treatment, and management. I look forward to more opportunities to attend future AWWA ACE conferences.

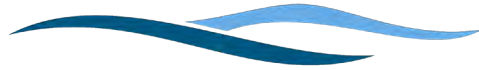


GUAM WATERWORKS AUTHORITY

Travel Report

 7/13/26

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Josephine SN Paulino	Title/Unit Position: Utility Admin. Assistant
Travel Date Begin: June 20, 2026	Travel Date End: July 9, 2026
TA No.: 26-486	Travel Location: Washington, DC

Trip Objective:
The purpose of this travel was to identify industry best practices in laboratory administration, data tracking, and facility modernization. The insights gained will directly support resource planning and optimize administrative workflows within GWA's Laboratory Services Division

HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.)

1. Key Facility Site Visit: WSSC Water Laboratory
Toured the \$38 million WSSC Water Laboratory to observe a premier municipal operation processing 500,000 annual tests. Key administrative takeaways include:

- **Workflow Automation:** Automated sample handling minimizes data errors and accelerates processing.
- **Compliance Tracking:** Barcode-driven chain-of-custody protocols ensure total EPA compliance from collection to reporting.
- **Smart Procurement:** A barcode-driven inventory system automatically flags low stock, allowing administrative staff to easily place accurate reorders.

2. Core Training & Technical Sessions
Professional development focused on the compliance, business, and clerical sides of laboratory utility operations:

- **LIMS Modernization:** Evaluated dedicated water and wastewater software vendors—such as **BTSOFT** and **Confience**—designed to automate sample logging, track data, and streamline client notifications.
- **Audit Readiness:** Acquired strategies to better organize electronic records, training logs, and standard operating procedures (SOPs).
- **Professional Certification:** Completed specialized coursework and received a Certificate of Completion for **Source Water Quality and Treatment**.

3. Vendor Relations
Engaged directly with key distribution partners on the exposition floor to strengthen supply chain reliability and machine maintenance assistance. I was able to meet with representatives from: Hach, USA Bluebook and Idexx to name a few.

7/17/26

Traveler Signature and Date

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Brett Railey	Title/Unit Position: AGME
Travel Date Begin: 6-19-2026	Travel Date End: 7/6/2026, delayed to 7/8/26 due to typhoon
TA No.: 26-487	Travel Location: Washington DC
Trip Objective: Attend AWWA Conference and Exposition (ACE) 2026 in Washington DC. Attend various training sessions on water related topics relevant to GWA including non-revenue water (NRW), PFAS treatment, and SCADA. Meet water industry manufacturers and suppliers to learn about relevant products and services including pipe, valves, water meters, tanks, data loggers, GAC, water industry software, etc.	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) Attended multiple training sessions including Water and Wastewater Collaborative Delivery Sunday session titled Project Delivery Organizational Readiness: Supporting Teams in Early Planning, Procurement and Executing your Capital Improvements Plan. Other sessions attended during the conference included Use of AMI Data for Hydraulic Modeling, Leak Detection and Non-Revenue Water, Harnessing AMI for Decision Analysis and Advanced Monitoring, Advancing Digital Maturity in Water Distribution from Models to Operational Intelligence, and The Power of Ozone in Water Treatment. Met with various industry vendors to investigate products and services that may be of use to GWA, and representatives/organizations currently providing products and services to GWA to discuss technical support and other issues.	



7/29/26

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Rylma Nida A. Carino	Title/Unit Position: Junior Engineer
Travel Date Begin: June 19, 2026	Travel Date End: June 26, 2026
TA No.:	Travel Location: AWWA ACE 2026, Washinton DC

Trip Objective:
AWWA ACE 2026 offer continuing education to GWA water professionals, engineers, and operators

HIGHLIGHTS

June 21, 2026, Sunday

Topic: Learn to Design, Construct and Operate Water System Equipment using AWWA Standards & Manuals Conference Workshop

How was objective met?

AWWA's standard and manuals go through a rigorous review and approval process to ensure uniform, accurate, trusted guidance for the water industry during the design, prior to construction and operation

What was learned?

Updated technical specifications and how each component functions within a broader system.

The Application of Pipe Accessories AWWA standards, steel pipe fittings, and Ductile pipe iron & Fittings and discovered how AWWA manuals and standards serve as essential resources for deeper understanding.

At the hands-on workshop, engage directly with equipment and systems, gaining practical insight into how to design, specify, operate, and maintain them. The materials presented enhanced my knowledge on Service Line Valves and Fittings (C800 & C810), Pipe and Fittings (C153,M41),Pipe and Fittings Installation (C600, C604, C607), Filter Media with A Focus on PFAs (B604, B605), Valves,(swing/silent check valve and etc.) C508, C519, and Rehabilitation of Water Mains & Prestressed Concrete Tanks (M28 & D102)

How can GWA benefit from trip?

Enhanced knowledge and reference on how to Operate the Water System Equipment using AWWA Standards & Manual. Focus of PFAS, the presence of per- and polyfluoroalkyl substances (PFAS) in drinking water has increased awareness of broader issues related to emerging contaminants. Understanding their formation, treatment, destruction, and communication is crucial to help utilities take the next step in regulatory compliance and for Infrastructure Management, learn more about risk assessment, O&M, and asset management tools and strategies.

How trip relates to Agency's responsibility

The asset management approach that incorporates inventories and condition assessments enables data-driven decisions on budgets while maintaining service levels.

The installation of updated of Service Line Valves and Fittings, Pipe and Fittings and Pipe and Fittings Installation, Filter Media with A Focus on PFAs, Valves, Rehabilitation of Water Mains & Prestressed Concrete Tanks. Thi practices can be a reference to follow for the betterment of the Agency.

June 22, 2026, Monday

Opening General Session

Began with an impactful conference, highlighting award recipients, remarks from AWWA, and a topical keynote and connecting to the attendees.



GUAM WATERWORKS AUTHORITY

Travel Report

Exhibit Hall Grand Opening

Meet and greet with the Exhibitors

Vortex water: discussed NSF -61 Certified Trenchless Solutions for Water Infrastructure.

IXOM Water Care: Presented the Storage tank mixing and destratification

VARIOTEC 460 Tracer Gas: Specialist in detecting leaks using hydrogen or tracer gas. Its innovative sensor technology ensures precise and efficient results

Grundfos Pumps Corporation: Global pumps and pumping systems leader serving the residential, commercial-building and process-industry markets, as well as being a major supplier to the water-supply and water-treatment industries.

Topic- Innovations in Treatment Plant Design and Construction

How was objective met?

The objective was met when the project completed ahead of schedule. Develop a flexible plan, identify and plan for the “what ifs” start with Planning phase of a work, that commissioning and start up plan should be prepared by an Engineer, starting and adjusting plan by contractor, Manufacturer recommendation start up procedures, Operations, and Maintenance data and training plan and training schedule.

What was learned?

Prepare inspection plan, that includes drain/reduce water level in pipe, remove all debris from top surface of pipe, dry top surface of pipe, perform ultrasonic thickness measurements, insert camera into fluoride injection port inspect interior concrete liner, visually inspect the top of surface of the pipe for corrosion, fitting and coating deterioration and visually inspect the holes and adjacent areas around the other chemical injection ports.

Submit inspection findings, this includes what was able to be determined, why is this happening, physical damage, galvanic corrosion, chemical corrosion, criteria and options for a repair whether traditional welding, carbon fiber wrap, repair clamp, cold bonding, set the operational Logistic for repair, system and monitoring control, dewatering efforts, water infiltration investigation, where are the leaks occurring and submit final product

Early contractor involvement, early work packages into construction while main design packages in development, risk reduction duration project, simplified contractual pathways for MWS, and public outreach are the delivery strategy.

Plan the funding, initiate early works intentionally, permitting process to control the schedule, early work construction and main project design can strain design teams and, submit inspection plan and findings.

How can GWA benefit from trip?

GWA employee have the opportunities to learn more about intelligent water technology, critical infrastructure topics including water loss, pipe rehabilitation, plant operations and cutting -edge solutions such as distribution system improvements.

June 23, 2026, Tuesday

Topic: GAC, BAC, and Microplastics in Association with PFAS

How was objective met?

PFAS Removal and GAC Performance, initially assess the performance of various GAC media for PFAS removal, establish PFAS breakthrough curves, and evaluate media changeout frequency.

What was learned

Not all PFAS have similar affinity to GAC, short chain compounds have weaker adsorption and break through early, long- chain PFAS remain adsorbed longer and show delayed breakthrough, early breakthrough of short -chain can serve as the trigger for replacement frequency, and this relationship helps predict exhaustion before long-chains appear in the effluent.

Backwashing has not reduced PFOS removal, The GAC media has consistently maintained iron and manganese below the secondary maximum contaminant levels. Filtered water turbidity has remained greater than one, 90% less than .4



GUAM WATERWORKS AUTHORITY

Travel Report

Some initial Arsenic release from the media was observed in the first week, and Concentrations of PFOA and PFOS have been maintained below detection limits as of today.

Microplastics in Watersheds Act as Vectors of PFAS contamination, this can be categorized by shape, size, color, composition and concentration. Primary MPS- from cosmetics, cleaning agents, and coatings. Secondary MPS- from decomposition and degradation of microplastic via weathering, ultraviolet radiation, or physical wear.

The 5 different types of MP's exhibits strong adsorption potential for PAS under environmentally relevant conditions, Polyethylene (PE), Polypropylene (PP), Polystyrene (PS), Polyamide (PA), Polyvinyl Chloride (PVC), PFOA and PFOS at 1000ng/l concentration.

The Multi -Function Treatment Effectiveness, first determine the duration of effective PFAS, TOC , turbidity and inorganics removal and identify biological acclimation period and operational phases (adsorption, dual-function , biofiltration).

Operational Performance, study head loss trends and backwashing frequency, evaluate impacts on PFAS removal and overall filter performances.

Design and Sources Water factors, Assess performance under varying EBCT's and loading rates , investigate seasonal source water effects, identify- co benefits (reduced disinfection byproducts)

Phase I- Start up- Ozonated Water, filtered water to plant drain then perform Pilot Testing Phases- Pilot start up 2-5 days. Phase II- Baseline Testing 6 months

Dual use GAC Filtration for Iron and PFAS removal, initially, determine the iron capacity,, turbidity removal capacity, PFAS removal capacity with regular backwashing and estimate the media life, then monitor the TOC, FOS, PFOA and PFBS, Ion and manganese, Arsenic results

How can GWA benefit from trip?

Gives practical, evidence-based guidance for Engineers and operators on what to expect from GAC in real systems, how to size and pilot contractors, and how to manage spent media and monitoring. Engineers will get design ranges, a pilot test checklist, tradeoff versus ion exchange and membranes, and procurement tips to put into specifications, and budgets.

Topic: New Approaches and Tools for Asset Management Practices

How was objective met?

The Technology in asset management makes it more accessible and enables managers to run routine matters like reporting, compliance and risk assessment. Robo -advisors and algorithm -based trading systems democratized investment services such as benefits of more affordable fees and personalized portfolios were transferred to the client

What was learned?

CMMS Improvements to Bridge a Gap. Asset Hierarchy standardization, establishing asset types, creating PM templates, failure profile service histories. Approval Profiles & TO-DO Roles, Production Asset Management Steering Committee,

The Internal Operating Procedures & Training roll-out results in Preventive maintenance program, Asset Type Service History and Asset Type Failure Profiles

Building the Foundation includes, PM Work Orders (Labor, Parts , Cost)-PM Service History (Component, Maintained, Repairs Identified), Repair Work (Labor, Parts Cost)- Failure Service History (failed components, modes and cause) Condition Assessment, Assets, maintenance work, history, service history, CA score, critically/risks Score, Asset Type, Pm Templates, Failure Profile, Valid Service History, Condition Assessment (CA) Protocols

How can GWA benefit from trip

The Technology Advancements, UAS Based Sewer Inspection, incorporate NASSCO Standards to integrate UAS Data Into Existing Workflow, Leak Detection, Thermal imaging, Microwave remote sensing technology using a Portable L-band Radiometer, Digital Twin Development and Water Quality Monitoring



GUAM WATERWORKS AUTHORITY

Travel Report

How trip relates to Agency's responsibility

Growing the program, drones are enhancing efficiency across the organization by Geospatial Modeling (2D &3D), Facility & Water Tower inspection, Construction Management, Telecommunication equipment inspection and Flood Risk Assessment

Topic: Smart Operations, Secure Supplies: Modern Strategies for Utility Planning**How was objective met?**

By leveraging data driven decision-making, embracing AI and predictive analytics, and learning from global leadership approaches, we can redefine how utilities plan for the future

What was learned?

The Water Supply Analysis Support Operations decision- making, it determine the safe yield analysis based on historical streamflow data and daily mass- balance model and the cost optimization Analysis and use of hydraulic model to estimate potential savings

June 24, 2026, Wednesday

Topic: Navigating Industry Readiness for the Federal PFAS Drinking Water Deadline**What was learned?**

Utilities must balance technical uncertainty, regulatory requirements, and affordability when selecting PFAS treatment methods like GAC, Ion exchange and Reverse Osmosis. The supply chain reliability, including domestic manufacturing capacity and media availability, is critical for long term project success and compliance readiness. The early contractor involvement and collaborative project delivery models can help utilities meet aggressive schedules amid workforce shortages and equipment. Water utilities face significant

How can GWA benefit from trip?

The presence of PFAS compounds in source water and drinking water is of increasing public concern due to their widespread use and environmental persistence. The resources learned provide information and guidance for GWA Engineer to address this contaminant.

Meet and Greet with the Exhibitors

Advance Products and Systems, LLC: Feature the NSF approved G10 Gasket Kits for potable water along with complete flange protector, grease and Radolid nut caps.

American AVK Company: Mentioned that they design and manufacture high quality valve & innovative gate valves and fire hydrants for the waterworks and fire protection industries in North America.

Crispin Valve: Manufacturers Air release, Check, Plug and Butterfly valve s for all needs. Their X Series air valves eliminate inline backflushing. Their AWWA C504 K-Flo Butterfly Valves are available in sizes from 2" to 168".Vortex Water-NSF -61 Certified Trenchless Solutions for Water Infrastructure. IXOM Water Care – Storage tank mixing and Destratification

Rylma Carino 7/27/2026

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Vincent E.C. Pangelinan	Title/Unit Position: Operations & Maintenance Manager
Travel Date Begin: 6-19-26	Travel Date End: 6-26-26
TA No.: TA26-493	Travel Location: Washington DC
Trip Objective: Attend the ACE 2026 AWWA Conference for professional courses and training related to Water Distribution Systems and Utility Management. Meet with manufacturers to discuss specialized equipment and newer technologies that meet GWA's needs.	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) Completed courses focused on the design, installation, and operational management of water distribution systems, treatment plants, water storage tanks, and pumping stations using AWWA Standards & Manuals pertaining to valves, water mains, concrete tanks, steel tank coatings, and the critical issue of PFAS. Conducted and overview of additional standards such as the AWWA G200 Distribution Systems Operation and Management and AWWA's Utility Management Standards, and the implementation of the AWWA Utility Quality Management Standards designed to enhance the effectiveness and efficiency of water and wastewater systems management. Participated in sessions addressing the critical role of GAC, BAC, and microplastics in relation to PFAS, which included a pilot study on innovative GAC applications designed to meet emerging PFAS standards and provide actionable insights for the Guam Waterworks Authority and water utilities nationwide, alongside advanced courses on GAC filtration and the implications of microplastics. Additional sessions attended focused on Pressure Zone Management, Leakage Management, NRW Strategies, Water Quality, Workforce Development & Aging Workforce, and Energy Systems Applications, each of which plays a crucial role in the development for water utilities, while also networking with other utilities that share the same challenges and how they have been able to overcome. Connected with various vendors and manufacturers who can help GWA with its requirements, including products like pneumatic pressure tanks, portable flow meters, magnetic flow meters, insertion meters, gauges and data loggers, GPS devices, NSF 61 approved packing and lubricants, booster pump systems, and leak detection software. Consulted with E.H. Wachs Industrial Products to address ongoing operational challenges and the replacement of existing equipment. Review updated specifications for GWA's valve-exercising machine. Held direct discussions with Advance Valve Technologies regarding the timely delivery of insertion valves and coordinated essential on-island training.	

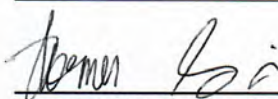
7-13-26

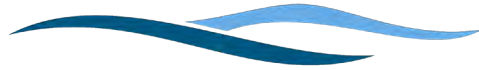
Traveler Signature and Date

GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Thomas San Nicolas	Title/Unit Position: Water/Sewer Maintenance Worker II
Travel Date Begin: 6/19/2026	Travel Date End: 6/25/226
TA No.: 26-496	Travel Location: Washington D.C.
Trip Objective: Gain knowledge and experience about the water industry	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) The ACE26 Conference in Washington D.C. was an amazing experience. I've learned that GWA isn't the only water agency that is dealing with PFAS. There are many water agencies around the world dealing with PFAS and some have different ways of filtering out of the drinking water. The most common ways to filter PFAS is with the GAC system. Going to the ACE26 Conference can help GWA stay updated with the advancing technology and treatment solutions that helps provide safe and sustainable water for Guam. I was able to meet with some vendors that have worked with GWA. One of the vendors was CHLORTAINER who recently installed their secondary containment for hazardous chemical at the UGUM Treatment Plant for the 1 ton chlorine cylinders, the other was a vendor from Water Professional International who administers our ABC water and wastewater certification testing at UOG.	

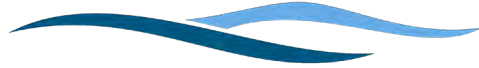
 7/3/26
Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

Employee Name: Leilani Unchangco	Title/Unit Position: Utility Admin
Travel Date Begin: 06/19/26	Travel Date End: 06/24/26
TA No.: 26-498	Travel Location: Washington, DC
Trip Objective: Participate in ACE 26 to enhance professional development, improve operational readiness, exchange best practices, and support mission requirements through training, collaboration and leadership development.	
HIGHLIGHTS: (Minimum data contents: How was objective met; What was learned; How can GWA benefit from trip; How trip relates to Agency's responsibility. You may use an extra sheet if necessary.) I attended the AWWA ACE 26 Conference in Washington, D.C. this year. ACE is AWWA 's biggest conference and brings together water professionals from all over. There were over 11,000 attendees and a huge exhibit hall with hundreds of vendors. There were also so many technical sessions happening at the same time that it was impossible to make it to everything, so these are just the sessions I attended and what I took away from them. Funding & Delivery Models for Small, Isolated Water Utilities This was probably the session I got the most out of. It focused on different ways small and isolated utilities are funding and delivering infrastructure projects. While Guam has it's own set of challenges, I found myself relating to a lot of the discussions. It was interesting to hear how other utilities are making the most of limited funding, deciding which project to tackle first, and finding ways to keep projects moving. It gave me few ideas that might be worth looking at as GWA continues planning future capital improvement projects. Even if not everything applies on Guam, it was helpful to hear how others are working through similar challenges. Workforce Panel I also attended workforce discussion at a panel on workforce challenges in the water industry. They talked about partnerships with community colleges, apprenticeship programs, and other ways to encourage people to enter the field. There wasn't one solution that stood out, but it was helpful to hear what others are trying. Overall, I'm glad I had the opportunity to attend. It was a good chance to see what other utilities are doing, hear about challenges they're facing, and pick up a few ideas that could be useful for Guam.	



GUAM **WATERWORKS** AUTHORITY
Travel Report

lunchango 07/29/26
Traveler Signature and Date