

Messages & Communications Doc. No. 38GL-26-1853 through 1862.

From 38th Committee On Rules <committeeonrules@guamlegislature.gov>
 Date Tue 2/3/2026 3:43 PM
 To Guam Legislature Clerks <clerks@guamlegislature.gov>
 Cc Frank Blas Jr. <speakerblas@guamlegislature.gov>

7 attachments (24 MB)

2326COMM Doc. No. 38GL-26-1854.pdf; 2326COMM Doc. No. 38GL-26-1853.pdf; 2326COMM Doc. No. 38GL-26-1855.pdf; 2326COMM Doc. No. 38GL-26-1858.pdf; 2326COMM Doc. No. 38GL-26-1856.pdf; 2326COMM Doc. No. 38GL-26-1859.pdf; 2326COMM Doc. No. 38GL-26-1862.pdf;

Håfa Adai Clerk's Office,

Please see attached, Messages & Communications Doc. No. 38GL-26-1853 through 1862 for processing:

| | | | |
|---|--------------|---|---|
| ✓ | 38GL-26-1853 | Office of the Governor of Guam - Medical Referral Assistance Office | FY2026 1st Quarter Activities and Expenditures Report* |
| ✓ | 38GL-26-1854 | Guam Solid Waste Authority | FY2025 3rd and 4th Quarter; and FY2026 1st Quarter Travel Report* |
| ✓ | 38GL-26-1855 | Guam Economic Development Authority | FY2026 1st Quarter Staffing Pattern* |
| ✓ | 38GL-26-1856 | Judiciary of Guam | Guam Criminal Law and Procedure Review Commission Plenary Meeting Packet for January 29, 2026* |
| ✓ | 38GL-26-1857 | Consolidated Commission on Utilities | Board Books file for Guam Waterworks Authority Work Session Packet for January 20, 2026; Board Books file for Guam Power Authority Work Session Packet for January 22, 2026; Board Books file for Consolidated Commission on Utilities Special Meeting for January 8, 2026; and Consolidated Commission on Utilities Regular Board Meeting Packet for January 27, 2026* |
| ✓ | 38GL-26-1858 | University of Guam | Northern Guam Soil Water Conservation District FY2026 1st Quarter Revenue and Expenditure Report* |
| ✓ | 38GL-26-1859 | Guam Community College | FY 2026 Reports: 1st Quarter Enrollment, 1st Quarter Apprenticeship Training Program, 1st Quarter Associate of Science in Practical Nursing, 1st Quarter Staffing Pattern and 1st Quarter Revenues and Expenditures (Un-Audited)* |
| ✓ | 38GL-26-1860 | Guam Waterworks Authority | Revenues and Expenditures Report (Unaudited) for the period ending November 2025 and December 2025* |
| ✓ | 38GL-26-1861 | Department of Parks and Recreation | FY2026 1st Quarter Staffing Pattern* |
| ✓ | 38GL-26-1862 | Guam Economic Development Authority | Unaudited Statement of Revenue and Expense Reports for the period ending December 31, 2025* |

Please retrieve Doc. No. 38GL-26-1857, 1860 and 1861 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

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Messages and Communications 38GL-26-1860*

2 messages

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

Mon, Feb 2, 2026 at 2:09 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-26-1860

| | | |
|--------------|---------------------------|---|
| 38GL-26-1860 | Guam Waterworks Authority | Revenues and Expenditures Report (Unaudited) for the period ending November 2025 and December 2025* |
|--------------|---------------------------|---|

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

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

From: <sfcalumaya@guamwaterworks.org>

Date: Fri, Jan 30, 2026 at 4:11 PM

Subject: Guam Waterworks Authority - November & December 2025 Financial Reports (Unaudited)

To: <speakerblas@guamlegislature.gov>

Cc: <mtaitano@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 months of November & December 2025 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

4 attachments

-  **Revenue and Expenditures Report to Speaker - Nov & Dec 2025 (signed).pdf**
11892K
-  **Revenue and Expenditures Report to Speaker - Nov 2025.xlsx**
71K
-  **Revenue and Expenditures Report to Speaker - Dec 2025.xlsx**
69K
-  **38GL-26-1860.pdf**
1183K

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

Mon, Feb 2, 2026 at 3:04 PM

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

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[Quoted text hidden]



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

Guam Waterworks Authority - November & December 2025 Financial Reports (Unaudited)

2 messages

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

Fri, Jan 30, 2026 at 4:11 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 months of November & December 2025 for submission.

Please let me know if you have any questions.

Thank You & Kindest Regards,

Shaine Calumaya

Finance-Accounting Division



GUAM WATERWORKS AUTHORITY

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-26-1860
OFFICE OF THE SPEAKER
FRANK F. BLAS, JR.

January 30, 2026

Time: 4:11 PM

Received: *FB*

3 attachments

 **Revenue and Expenditures Report to Speaker - Nov & Dec 2025 (signed).pdf**
11892K

 **Revenue and Expenditures Report to Speaker - Nov 2025.xlsx**
71K

 **Revenue and Expenditures Report to Speaker - Dec 2025.xlsx**
69K

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

Fri, Jan 30, 2026 at 4:42 PM

To: sfcalumaya@guamwaterworks.org

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

Håfa 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

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[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

January 30, 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 November 30, 2025 and December 31, 2025. In addition, we are transmitting the Travel Expense Report for the First Quarter of FY2026.

Senseramente,

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

cc: Christopher Budasi,
Acting General Manager



38GL-26-1860
Messages and Communications

RECEIVED
COMMITTEE ON RULES
February 2, 2026

2:09 p.m.

Marie Crisostomo

GUAM WATERWORKS AUTHORITY
Statement of Revenues, Expenses and Changes in Net Position
For the period ending November 30, 2025 (unaudited)

| | Month to Date | Year to Date |
|---|-------------------|-------------------|
| OPERATING REVENUES | | |
| Water Revenues | 7,748,725 | 16,070,285 |
| Wastewater Revenues | 4,775,176 | 10,429,022 |
| Legislative Surcharge | 388,648 | 828,706 |
| Other Revenues | 36,600 | 83,780 |
| System Development Charge | 55,282 | 206,901 |
| Total Operating Revenues | 13,004,432 | 27,618,693 |
| OPERATING AND MAINTENANCE EXPENSES | | |
| Water Purchases | 750,329 | 1,500,658 |
| Power Purchases | 1,288,838 | 2,726,424 |
| Total Utility Costs | 2,039,167 | 4,227,082 |
| Salaries and Wages | 1,974,992 | 3,964,020 |
| Pension and Benefits | 878,155 | 1,853,278 |
| Total Salaries and Benefits | 2,853,147 | 5,817,298 |
| Capitalized Labor and Benefits | (89,270) | (339,457) |
| Net Salaries and Benefits | 2,763,878 | 5,477,841 |
| Administrative and General Expenses | | |
| Sludge removal | 146,745 | 289,144 |
| Chemicals | 193,559 | 377,313 |
| Materials & Supplies | 100,447 | 270,087 |
| Transportation | 13,005 | 100,233 |
| Communications | 4,620 | 14,761 |
| Claims | 2,350 | 3,261 |
| Insurance | 156,337 | 312,674 |
| Training & Travel | 49,512 | 90,712 |
| Advertising | 1,485 | 11,662 |
| Miscellaneous | 291,555 | 519,479 |
| Regulatory Expense | 21,918 | 33,168 |
| Bad Debts Provision | 78,833 | 157,724 |
| Total Administrative and General Expense | 1,060,366 | 2,180,217 |
| Depreciation Expense | 2,369,757 | 4,743,881 |
| Contractual Expense | | |
| Audit & Computer Maintenance | 88,194 | 199,762 |
| Building rental | 50,984 | 100,239 |
| Equipment rental | 53,666 | 53,666 |
| Laboratory | 135,486 | 201,733 |
| Other | 130,818 | 292,231 |
| Total Contractual Expense | 459,148 | 847,631 |
| Retiree Supp. Annuities and health care costs | 585,783 | 909,332 |
| Contribution to Government of Guam | 58,842 | 117,683 |
| Total Retiree Benefits | 644,625 | 1,027,016 |
| Total Operating Expenses | 9,336,941 | 18,503,667 |
| Earnings (Loss) from Operations | | |
| Interest Income - Bond Funds | 1,225,561 | 2,541,724 |
| Interest Income - Other Funds | 404,291 | 799,588 |
| Interest Income - SDC | 18,453 | 32,928 |
| Interest Expense - Bonds | (3,369,662) | (6,746,688) |
| Amortization of Discount, Premium and Issuance Costs | 227,271 | 454,542 |
| Defeasance due to bond refunding | (43,561) | (87,121) |
| Prior Year Adjustment | (190,838) | (190,838) |
| Legal settlements | - | 7,775,471 |
| Total non-operating revenues (expenses) | (1,728,485) | 4,579,606 |
| Net Income (Loss) before capital contributions | 1,939,006 | 13,694,631 |
| Capital Contributions | | |
| Grants from GovGuam & Others | 42,500 | 42,500 |
| Total Capital Contributions | 42,500 | 42,500 |
| Change in Net Position | 1,981,506 | 13,737,131 |

GUAM WATERWORKS AUTHORITY
Statement of Revenues, Expenses and Changes in Net Position
For the period ending December 31, 2025 (unaudited)

| | Month to Date | Year to Date |
|---|-------------------|-------------------|
| OPERATING REVENUES | | |
| Water Revenues | 8,516,130 | 24,586,415 |
| Wastewater Revenues | 5,270,038 | 15,699,060 |
| Legislative Surcharge | 432,251 | 1,260,957 |
| Other Revenues | 46,505 | 130,285 |
| System Development Charge | 167,523 | 374,424 |
| Total Operating Revenues | 14,432,448 | 42,051,141 |
| OPERATING AND MAINTENANCE EXPENSES | | |
| Water Purchases | 750,329 | 2,250,987 |
| Power Purchases | 1,373,192 | 4,099,615 |
| Total Utility Costs | 2,123,521 | 6,350,602 |
| Salaries and Wages | 2,098,211 | 6,062,231 |
| Pension and Benefits | 979,211 | 2,832,489 |
| Total Salaries and Benefits | 3,077,422 | 8,894,721 |
| Capitalized Labor and Benefits | (192,638) | (532,096) |
| Net Salaries and Benefits | 2,884,784 | 8,362,625 |
| Administrative and General Expenses | | |
| Sludge removal | 149,535 | 438,679 |
| Chemicals | 72,272 | 449,585 |
| Materials & Supplies | 146,198 | 416,285 |
| Transportation | 36,330 | 136,563 |
| Communications | 10,333 | 25,094 |
| Claims | 5,278 | 8,539 |
| Insurance | 156,337 | 469,011 |
| Training & Travel | 11,501 | 102,213 |
| Advertising | 6,937 | 18,599 |
| Miscellaneous | 193,643 | 713,122 |
| Regulatory Expense | 14,525 | 47,693 |
| Bad Debts Provision | 82,100 | 239,824 |
| Total Administrative and General Expense | 884,989 | 3,065,207 |
| Depreciation Expense | 2,369,421 | 7,113,302 |
| Contractual Expense | | |
| Audit & Computer Maintenance | 159,368 | 359,130 |
| Building rental | 53,335 | 153,574 |
| Equipment rental | 21,216 | 74,882 |
| Laboratory | 132,576 | 334,309 |
| Other | 99,423 | 332,906 |
| Total Contractual Expense | 465,917 | 1,254,800 |
| Retiree Supp. Annuities and health care costs | 332,043 | 1,241,376 |
| Contribution to Government of Guam | 58,842 | 176,525 |
| Total Retiree Benefits | 390,885 | 1,417,901 |
| Total Operating Expenses | 9,119,517 | 27,564,436 |
| Earnings (Loss) from Operations | 5,312,932 | 14,486,706 |
| Interest Income - Bond Funds | 1,216,170 | 3,757,895 |
| Interest Income - Other Funds | 389,476 | 1,189,064 |
| Interest Income - SDC | 11,242 | 44,170 |
| Interest Expense - Bonds | (3,365,871) | (10,112,560) |
| Amortization of Discount, Premium and Issuance Costs | 227,271 | 681,813 |
| Defeasance due to bond refunding | (43,561) | (130,682) |
| Prior Year Adjustment | - | (190,838) |
| Legal settlements | 2,072,828 | 9,848,299 |
| Total non-operating revenues (expenses) | 507,555 | 5,087,161 |
| Net Income (Loss) before capital contributions | 5,820,487 | 19,573,867 |
| Capital Contributions | | |
| Grants from US Government | 887,186 | 887,186 |
| Grants from GovGuam & Others | - | 42,500 |
| Total Capital Contributions | 887,186 | 929,686 |
| Change in Net Position | 6,707,673 | 20,503,553 |

Guam Waterworks Authority
FY2026 1st Quarter Travel

| Name of Traveler | Fund Source | Purpose of Travel | Conference/Meeting Dates | Cost |
|-------------------------|--------------------|--|-------------------------------------|----------------------------|
| Watson, George | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 4,018.47 |
| Carino, Rylma | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,716.21 |
| Esteves, William | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 6,991.18 |
| Laguana, Vincent | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,048.21 |
| Perez, N'tasha | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,827.24 |
| Sablan, Frank | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 3,876.91 |
| Cruz, Michelangelo Paul | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,880.16 |
| Arriola, Jonathan | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,450.62 |
| Cruz, Kristofer | Revenue | WEFTEC 2025 | 09/27/2025 - 10/01/2025 | \$ 5,032.84 |
| Pangelinan, Vincent | AWWA/Revenue | AWWA-HIPWS Palau Workshop | 10/09/2025 - 10/10/2025 | \$ 1,332.89 |
| Railey, Brett | AWWA/Revenue | AWWA-HIPWS Palau Workshop | 10/09/2025 - 10/10/2025 | \$ 1,385.38 |
| Cruz, Thomas | AWWA/Revenue | AWWA-HIPWS Palau Workshop | 10/09/2025 - 10/10/2025 | \$ 634.38 |
| Budasi, Christopher | Revenue | Oracle CloudWorld Conference | 10/13/2025 - 10/16/2025 | \$ 5,615.78 * |
| Paulino, Josephine | Revenue | Office Dynamics Annual Conference for Administrative Professionals | 10/14/2025 - 10/17/2025 | \$ 6,460.49 |
| Taitano, Taling | Revenue | BLX/Orrick 2025 Workshop | 10/23/2025 - 10/24/2025 | \$ 4,804.61 |
| Bordallo, Miguel | Revenue | AMWA 2025 Executive Management Conference; EPA Meeting | 10/26/2025 - 10/29/2025; 11/12/2025 | \$ 5,660.17 |
| Santos, Francis | Revenue | EPA Meeting | 11/12/2025 | \$ 2,818.23 |
| Pangelinan, Vincent | Revenue | North American Water Loss (NAWL) Conference 2025 | 12/02/2025 - 12/04/2025 | \$ 3,507.28 |
| Benavente II, Michael | Revenue | North American Water Loss (NAWL) Conference 2025 | 12/02/2025 - 12/04/2025 | \$ 3,747.93 |
| Castro, Jermaine | Revenue | North American Water Loss (NAWL) Conference 2025 | 12/02/2025 - 12/04/2025 | \$ 3,951.42 |
| | | | | <u>\$ 87,760.40</u> |

* Travel report pending



GUAM WATERWORKS AUTHORITY

Travel Report

| | |
|------------------------------|--|
| Employee Name: George Watson | Title/Unit Position: Senior Engineer, Wastewater |
| Travel Date Begin: 9/25/2025 | Travel Date End: 10/02/2025 |
| TA No.: 500-402 | Travel Location: Chicago, IL |

Trip Objective:

Attend the WEFTEC 2025 Conference in Chicago, IL to learn more about new technologies and advances in the wastewater 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 trip to the WEFTEC conference was very informative. The ability to attend different workshops and presentation sessions throughout the conference, as well as talk with various exhibitors representing many different processes within the wastewater system that are very relevant to GWA.

A few important topics covered in the sessions included: PFAS within the wastewater process and potential treatments, infiltration and inflow, sanitary sewer overflows, use of AI in CCTV and condition assessment, flow metering and instrumentation both within the collection system and pump/lift stations. Some of the different instrumentations discussed include: radar as level indication and controls for lift stations, and radar as flow metering and surcharge detection within the collection system, sewer smart cover for surcharge detection and some flow metering, and other collection system inspection instruments (pole cameras, manhole inspection cameras, drones, radar and sonar). Other items discussed with exhibitors include different types of screening at both lift stations and treatment plants, various pumps and motors, vactor truck pump systems, and various fittings and valves.

All the abovementioned topics are relevant to what we do in GWA within our wastewater collections and treatment systems. Learning and discussing the topics with industry experts and the companies who make and provide the equipment we use within our wastewater systems was extremely helpful in better understanding our options and where the industry is going with new technologies. Many of these topics are immediately relevant with the many designs and construction projects we have ongoing with the Partial Consent Decree, as well as general maintenance and rehabilitation in our wastewater systems.

With the Partial Consent Decree now within its first full year, and many of our projects related to it approaching the midpoint or end of design, a lot of the equipment and vendors we will use were present at the conference. The opportunity to talk with many of the vendors to discuss different approaches or what they have to offer for our situations at GWA was beneficial. Some examples are the use of radar as a level indicator and control within our lift stations. We traditionally have used floats, level transducers, or bubblers within our lift stations, but each of those have their own issues that cause us to frequently need to replace or reset these instrumentations. Radar is becoming a very good option for level controls due to its ease of use and the ability to detect level even with potential FOG in the wet wells.

Another piece of technology that is quickly becoming a norm is the use of AI to review and assess CCTV and determine the need for maintenance and/or rehabilitation within our collection system. There were a handful of exhibitors present at the conference, and discussion with them was very enlightening. It was helpful to talk with them face to face and set up future meetings to further discuss the use of AI with our system and how it can help GWA be more efficient with our resources.



GUAM WATERWORKS AUTHORITY
Travel Report

George Watson Digitally signed by George Watson
Date: 2025.10.28 15:47:32 +10'00'

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

| | |
|---------------------------------------|--------------------------------------|
| Employee Name: Rylma Nida A Carino | Title/Unit Position: Junior Engineer |
| Travel Date Begin: September 25, 2025 | Travel Date End: October 3, 2025 |
| TA No.: | Travel Location: Chicago, Illinois |

Trip Objective: TO ATTEND WEFTEC 2025 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.

WEFTEC 2025 objectives were met by showcasing innovation in the circular water economy and workforce development, fostering a strong water community, and advancing resilience through technologies like AI. The event highlighted solutions for sustainability, attracted diverse talent, promoted volunteer engagement, and featured a community service project.

The new technology exchange within the water and wastewater fields, has not only grown in the size of exhibits, workshops and technical sessions, but also focuses on emerging water and wastewater industry trends, including AI and the circular water and wastewater economy.

GWA attendees have the chance to know the new technology to address PFAS in water and wastewater, addressing wastewater Effluent concerns to reuse, preparing for change in sewer construction projects, pipeline condition assessment, and Maintenance with new technologies and pump station improvement, and construction.

My trip to WEFTEC relates to a GWA's responsibility by providing opportunities to stay informed on emerging water industry trends, access educational programming, and foster innovation to meet responsibilities for water quality. For example, an Agency's responsibility to provide clean water and manage wastewater can be addressed by attending WEFTEC, which offers access to new technologies and strategies for improving water treatment processes, complying with regulations, and ensuring a sustainable water future.

WORKSHOP/EVENT SESSION ATTENDED.

Sunday, September 28, 2025/ 1:30 PM- 5:00 PM

WORKSHOP- W19 BIOGAS TO RENEWABLE NATURAL GAS: SYSTEM STARTSUPS AND SAFETY PROTOCOLS

The workshop highlighted the challenges encountered during the startup and commissioning of two biogas upgrading technologies and lessons learned, with an emphasis on the establishment of safety practices associated with the generation of biogas and upgrading to renewable natural gas. The **RNG plant operations** involve collecting organic waste, converting it to biogas via anaerobic digestion, and then upgrading the biogas to renewable natural gas (RNG) by removing impurities like water, carbon dioxide, and hydrogen sulfide to meet pipeline-quality standards. The RNG is then delivered to end-users or injected into existing natural gas pipelines, creating a renewable energy source that captures emissions from waste material.

At the end of the workshop, attendees, distinguish leading leak detection technologies, apply best practices for ensuring the safe operation of flammable gas systems, analyze and compare **RNG plant operations**, distinguish startup and commissioning lessons learned for achieving optimal gas quality and apply train-the-trainer procedures and templates for proper purge protocols at **Water Resource Recovery Facilities (WRRFs)**, a modern wastewater treatment plants designed to go beyond simple waste disposal to produce valuable products like clean water, renewable energy, and nutrients such as phosphorus and nitrogen. This concept supports a circular economy by recovering resources from wastewater for beneficial reuse, reducing waste, and potentially lowering energy consumption and greenhouse gas (GHG) emissions.



GUAM WATERWORKS AUTHORITY

Travel Report

Monday, September 29, 2025/ 8:30 AM- 9:30 AM

OPENING GENERAL SESSION

The opening sessions welcome WEFTEC members, participants and attendees.

Monday, September 29, 2025/ 10:00 AM- 10:30 AM

WEFTEC ORIENTATION

The speakers discussed the importance of WEFTEC to water and wastewater industry.

Monday, September 29, 2025/ 10:30 AM- 11:30 AM

BOOTH VISIT

I visited the booth of Xylem, and Zulzers to gain more knowledge regarding pumps and ask about the issues and concerns with our existing pumps.

Monday, September 29, 2025/ 1:30 PM – 3:00 PM

TACKLING THE PFAS PUZZLE: ADDRESSING WASTEWATER EFFLUENT CONCERNS FOR REUSE

The speaker discussed the PFAS regulations extend beyond drinking water and into wastewater systems, utilities face increasing pressure to adopt effective and economical treatment solutions. The session brings together recent research and pilot studies focused on enhancing PFAS removal in municipal wastewater effluent. Moreover, **Effluent organic matter (EfOM)**, often characterized by **Dissolved organic carbon (DOC)**, can limit PFAS treatability by adsorption processes using **Granular activated carbon (GAC)**, **Ion exchange (IX)** resin, or novel adsorbents, which are the best available technologies established for PFAS treatment in water in lieu of wastewater. Able to evaluate the performance and limitations of PFAS adsorption technologies—Granular Activated Carbon (GAC), Ion Exchange Resin (IX), and novel media—under wastewater conditions and analyze pilot-scale and bench-scale study outcomes to inform cost-effective PFAS treatment selection and system design for water reuse.

Monday, September 29, 2025/ 3:30 PM – 5:00 PM

COMMUNITY ENGAGEMENT TO ODOR SOLUTIONS

The speaker discussed the advanced techniques, and tools to enhance community engagement, modeling, monitoring, and mitigation of odor and corrosion issues in wastewater systems. The objective is to conduct continuous odor monitoring during winter and summer by Onsite monitoring, Fence line monitoring and Neighborhood Monitoring. Key findings from both monitoring periods are summarized. Odor Control plan is required to satisfy community concerns, upgrading plant while operating, addressing odor concerns today, tomorrow and the future. An outreach program shall be considered by being a community member, able to monitor progress, report responsibility, identified issues and concerns and be a good neighbor. By improving ventilation practices and addressing key odor sources, the project aims to mitigate odor issues, enhance environmental quality, and strengthen community relationships.

Tuesday, September 30, 2025/ 8:30 AM – 10:00 AM

PREAPRING FOR CHANGE IN SEWER CONSTRUCTION PROJECT

The Presenter discussed that a project will not always proceed as planned, so it becomes wise to anticipate changes and prepare for them with contract contingencies, contract allowances, rebidding, contractor teaming for flexible methods and approaches, and initiating a project hiatus for financing or alternative delivery preparations. Prior to construction, able to assess multiple solutions to challenges, prepare multiple contingency plans in the contracts for the unknowns, and develop strong working relationships with their Contractors.



GUAM WATERWORKS AUTHORITY

Travel Report

Tuesday, September 30, 2025/ 10:00AM – 11:00 AM

BOOTH VISIT

I visited booth camp of SEWER AI

Tuesday, September 30, 2025/ 1:30 PM– 3:00PM

KNOW WHAT'S COMING IN: SOURCE TRACKING OF PFAS

The speaker walked through the importance of characterization of PFAS sources and lays emphasis on implementation of source control rather than removal alternative.

The study found it is critical for utilities to characterize PFAS sources and minimize PFAS contamination of water resources, but they should be ready to address significant loads from domestic wastewater as well. This presentation include the review of the importance of characterization of PFAS sources and a discussion of how implementing source control can reduce PFAS in a water resource recovery facility's (WRRF's) effluent and biosolids. One case-study will showcase the importance of quantification and PFAS identification with guidance on monitoring and sampling for source identification.

Tuesday, September 30, 2025/ 3:30 PM– 5:00PM

CONCEPT TO COMPLETION: PUMP STATION IMPROVEMENT, AND CONSTRUCTION

The speakers discussed the strategies for designing, improving and constructing pump stations and interceptors through innovations in assessment, retrofitting, and operations.

Speakers discussed the new technology improvements such as new technologies for pumps, grinders, valves, controls and electrical systems allow for restored and retrofitted pump stations to convey more flow than originally designed. These technologies also allow facilities to be more reliable, with improved emergency operation and address concerns related to flooding resilience and learn how these technologies can elevate aging infrastructure to meet modern demands. Able to assess and retrofit the aging pump stations, addressing challenges in interceptors, tunnel crossings, and pump station replacements, recognized O & M improvement strategies using new technologies and innovations, analyze the benefits and challenges in implementing Design-Build delivery methods in pump station and interceptor projects, and identify key factors in selecting pump technologies, including strategies for retrofitting aging infrastructure.

Transforming large wet-well/dry-well systems into efficient, modern configurations, converting traditional pump stations into in-line booster systems to improve flow management and reduce maintenance, employing innovative techniques to combat ragging and enhance flood resilience, including above-grade installations and new mechanical designs and achieving increased pumping by as much as 50% within the confines of existing facilities, leveraging mentioned improvement strategies and technologies.

Wednesday, October 1, 2025/ 8:30 AM– 10:00 AM

DENSIFIED ACTIVATED SLUDGE: PRACTICAL DESIGN AND MODELING EXPERIENCE COVERAGE

Speaker discussed the modeling approaches within conventional activated sludge model frameworks and newly-available densified activated sludge model frameworks.

The conventional activated sludge (CAS) refers to a widely used standard technology for municipal wastewater treatment that involves a sequence of processes including preliminary treatments, primary sedimentation, an activated-sludge reactor, and secondary sedimentation, primarily aimed at removing organic matter and some while newly-available densified activated sludge (DAS) model frameworks, such as those developed with the SUMO library, integrate continuous flow DAS processes into established modeling platforms to predict performance, optimize design, and address challenges like sludge settling and nutrient removal.

These models often incorporate features like hydro cyclones for gravimetric selection and an upstream biological selector, focusing on factors such as sludge settleability, granule formation, and nitrogen removal.

They represent a step forward in modeling intensified treatment strategies and understanding the complex dynamics of granular sludge system. If a facility needs to handle more wastewater or improve effluent quality but has limited space, DAS is a suitable intensification strategy.



GUAM WATERWORKS AUTHORITY

Travel Report

Wednesday, October 1, 2025/ 11:00 AM– 11:30 AM

WASTEWATER DISINFECTION UTILIZING DIGITAL DOSING PUMPS

Speaker discussed the disinfection of wastewater is a vital component of modern water treatment systems, aimed at reducing pathogenic microorganisms to safeguard public health and environmental quality. This introductory overview examines the principles and significance of wastewater disinfection, with a focus on chemical dosing methods such as chlorination. A key aspect of effective disinfection is the precise and reliable delivery of disinfectants, where advanced dosing technologies play a crucial role. Grundfos DDA pumps, known for their high-precision digital dosing capabilities, are increasingly utilized in wastewater treatment facilities to ensure accurate chemical dosing, minimize waste, and enhance process control. These pumps offer features such as flow monitoring, automatic calibration, and remote control, making them ideal for integration into

Wednesday, October 1, 2025/ 1:30 PM– 2:00PM

ADVANCE STRATEGIES FOR OPTIMATION OF SIDE STREAM NITROGEN REMOVAL

Speaker discussed the side stream nitrogen removal processes continue to be refined as lessons are gleaned from full-scale operating experience. The session discuss the challenges with operating sides stream processes and how the lessons learned were applied to existing and next generation installations to optimize nitrogen removal.

Participants able to identify common challenges in partial Nitrification and anammox (PNA) systems, such as nitrite-oxidizing bacteria (NOB) control, temperature sensitivity, and alkalinity requirements, recognize how changes in biomass composition, such as the increase in flocculant biomass and decrease in granule count, affect the overall performance and stability of the system and assess the effects of operational changes, such as solids processing equipment upgrades and temperature setpoint adjustments, on the performance of the side stream process.

Wednesday, October 1, 2025/ 2:30 PM– 3:30PM

BOOTH CAMP VISIT

Rylma Carino 10/17/2025

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|--------------------------------|---|
| Employee Name: William Esteves | Title/Unit Position: Senior Engineer / 1400 |
| Travel Date Begin: 09/25/2025 | Travel Date End: 10/03/2025 |
| TA No.: 500-404 | Travel Location: Chicago |

Trip Objective: The objective of attending WEFTEC 2025 was to learn about current trends and technologies in the water industry. The focus was on attending educational seminars to stay informed on new developments, and meeting with manufacturers to explore equipment and solutions that could benefit utility operations. The trip aimed to gather practical insights, build professional connections, and bring back ideas to help improve service and efficiency within the company.

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.)

After attending the SmartWater seminar, key takeaways included practical strategies for improving how GWA manages and interprets system data. The session emphasized reducing unnecessary alarms, adjusting alert levels, and using clear visual tools—such as Sankey diagrams—to help operators quickly assess system health. Insights were shared on analyzing pump data to predict maintenance needs and improve reliability. The seminar also explored how AI can uncover patterns in operations, with a focus on preparing complete and meaningful training data. These approaches offer GWA opportunities to enhance efficiency, reduce downtime, and strengthen service to the community.

After attending the seminar on data-driven optimization models in full-scale wastewater treatment plants, the key takeaway was how machine learning can be used to improve plant performance and reduce costs. The presentation showed how Jacobs developed and deployed models across multiple treatment plants to help operators make better dosing decisions, cutting down on chemical use and energy while still meeting strict treatment standards. It also covered the effort needed to build these tools, including working around cybersecurity challenges and tailoring each model to the specific needs of each plant. The results were impressive—real savings in money and emissions, and strong operator engagement. These ideas could help GWA explore similar solutions to improve efficiency and reduce environmental impact.

A conversation with SewerAI provided insight into how their platform is helping utilities like GWA improve sewer system management through advanced technology. SewerAI offers a cloud-based solution that uses AI computer vision, 3D photogrammetry, and risk-based planning to streamline condition assessment and inspection workflows. Their system can process CCTV footage and automatically generate defect-highlighted videos, which are then reviewed by NASSCO-certified personnel for accuracy and compliance. With tools like PIONEER®, AutoCode™, Sewer3D™, and Risk & Rehab™, SewerAI enables faster issue identification, smarter maintenance planning, and better decision-making. Their approach has the potential to help GWA reduce costs, improve inspection accuracy, and prioritize repairs more effectively, contributing to a healthier and more resilient sewer infrastructure.

William Esteves 10/17/25
Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|--|--------------------------------------|
| Employee Name: Vincent Edward T. Laguana | Title/Unit Position: Planner III |
| Travel Date Begin: September 25, 2025 | Travel Date End: October 3, 2025 |
| TA No.: 500-405 | Travel Location: Chicago WEFTEC 2025 |

Trip Objective:

To attend WEFTEC 2025 in Chicago, meet with potential vendors and learn new ideas, technologies, and network with people in the 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.)

I attended the following sessions during WEFTEC 2025: Opening General Session, Asia and Pasifika Cultures in Water Luncheon, Condition Assessment from Laterals to Interceptors, Small Systems Community Focus Group, Learning Exchange: Indigenous People Affinity, Big Solutions for Big Storms, Innovations in Finding I/I, and Collaborative Strategies for Private I/I Reduction.

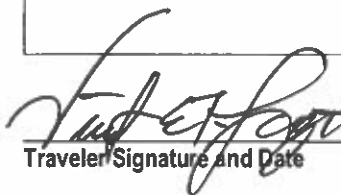
Attending WEFTEC for the first time was an eye-opening experience. It provided a greater appreciation for the scale and impact of the water and wastewater industry in the United States and around the world. The event reportedly hosted over 23,000 attendees, and being part of such a large and diverse gathering was both humbling and inspiring.

The exhibition halls—each spanning the size of multiple football fields—featured hundreds of vendors showcasing innovative products, services, and technologies. Seeing the collaboration and shared commitment within the industry was remarkable.

The sessions I attended featured presentations from various agencies and companies highlighting their challenges, solutions, and program successes. These provided valuable opportunities to compare and contrast approaches and identify potential applications for Guam Waterworks Authority (GWA) projects and initiatives.

In addition, the smaller group sessions encouraged active participation, open discussion, and meaningful networking. These interactive settings fostered connections with professionals from across the industry and offered practical insights that can be applied to my work.

Overall, WEFTEC 2025 was an inspiring and highly educational experience. I would strongly encourage others from GWA to attend future conferences to gain similar exposure, knowledge, and professional development opportunities.

 10/9/2025
Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|---------------------------------------|------------------------------------|
| Employee Name: N'tasha Perez | Title/Unit Position: Biologist III |
| Travel Date Begin: September 25, 2025 | Travel Date End: October 03, 2025 |
| TA No.: 500-423 | Travel Location: Chicago, Illinois |

Trip Objective:

Participate in the WEFTEC conference to attend technical sessions and workshops, engage with industry experts, and exchange lessons learned to bring back actionable insights that support continuous improvement in our compliance performance. Attendance will strengthen our utility's compliance program through exposure to case studies, innovative monitoring tools, emerging industry trends, and discussions with regulatory professionals and peers.

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.)

Attendance at the WEFTEC conference provided valuable exposure to emerging trends, innovative practices, and regulatory developments across the wastewater sector. The opening session featured keynote speaker Travis Mills- a quadruple amputee and veteran- whose message of resilience and overcoming adversity set a powerful tone for the conference and reflected the dedication required in our industry.

I attended the Operations Challenge, focusing on the laboratory competition, where participants demonstrated technical skill, teamwork, and precision under pressure. This event reinforced the importance of maintaining high standards in laboratory performance and investing in staff development.


In sessions on wastewater epidemiology, I learned about the predictive value of wastewater data, which can provide a one- to two- week lead time for hospital admissions and assist in the early detection of new viruses. Wastewater surveillance is an emerging tool with potential applications in public health and chronic disease monitoring.

Sessions on the Value of Water and Circular Water introduced the 3Rs of the circular economy- Reduce, Recover, and Regenerate- and emphasized the need to make water's value visible to customers by demonstrating its essential role in daily life and community well-being.

Additionally, sessions on PFAS in wastewater highlighted the importance of source identification, characterization, and tracking. This information is particularly relevant as regulatory limits for PFAS in wastewater are expected to be introduced in the near future.

The insights gained from WEFTEC will help our utility anticipate and prepare for upcoming regulatory changes, particularly regarding PFAS monitoring and wastewater surveillance. Lessons from the circular water discussions will support broader sustainability initiatives and public outreach efforts, while the operational takeaways from the laboratory competition can inform internal training and performance improvement activities.

Attendance at WEFTEC supports our agency's commitment to regulatory excellence and continuous improvement in protecting public health and the environment. Remaining informed on evolving regulations, emerging contaminants, and innovative practices ensures our compliance program remains proactive, resilient, and aligned with industry best practice.

 10/07/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|-----------------------------|---|
| Employee Name: Frank Sablan | Title/Unit Position: P/S Supervisor, Court Order Unit |
| Travel Date Begin: 9/24/25 | Travel Date End: 10/3/25 |
| TA No.: 500-436 | Travel Location: Chicago- WEFTEC |

Trip Objective:

WEFTECH (Water Environment Federation's Technical Exhibition and Conference)
Learn and Explore new Equipment that would Benefit Guam Water Works

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 was objective met)

Technical class related to Sewer lateral inspection and I/I source reduction.

Lateral Inspections

- Definition: Examination of the lateral lines that connect individual properties' sewer systems to the main sewer line.
- Purpose: To identify blockages, cracks, root intrusion, or damage that can cause backups or leaks.
- Methods
- CCTV (Closed-Circuit Television) Inspection: Using a specialized camera mounted on a reel to visually inspect the pipe interior. Using acoustic sensors or smoke testing to locate leaks.
- GPS Mapping: Documenting the location and condition of the lateral lines.

Vector's

- Definition: Mobile vacuum trucks used for cleaning, industrial waste removal, and stormwater management.
- Uses in Lateral Inspections:
 - Cleaning: Clearing debris, roots, and grease from lateral lines to facilitate inspection.
 - Hydro Jetting: Using high-pressure water jets to clean pipelines thoroughly.
 - Vacuuming: Removing debris, sludge, or other obstructions from the pipes during or after inspection.

(What was learned)

Best Practices

- Regular inspections to prevent costly repairs
- Combining CCTV with cleaning to ensure clear visuals.
- Proper documentation and mapping of the lateral network.
- Use Vector's regularly to maintain free-flowing lateral and main lines.
- Housing/Shelter and Preventive Maintenance on Equipment's

How can GWA benefit from trip

1. **Advanced Training:** Staff can acquire specialized knowledge on the latest inspection technologies, equipment operation, and maintenance procedures, improving overall service quality.
2. **Technology Demonstration:** Viewing and evaluating new tools and equipment, such as CCTV inspection systems, Vector's, or other pipeline maintenance solutions, to enhance their current infrastructure.
3. **Process Improvement:** Learning best practices in lateral inspections, cleaning, and management, leading to increased efficiency and reduced downtime.
4. **Partnership Development:** Building relationships with Weftech for ongoing technical support, equipment servicing, and future collaborations.
5. **Cost Savings:** Gaining insights into effective methods that could reduce repair and maintenance costs through improved techniques and equipment choices.
6. **Capacity Building:** Enhancing the skill set of personnel, which can lead to better inspection accuracy, quicker problem identification, and proactive maintenance.
7. **Update on New Technologies:** Staying informed about the latest innovations in sewer inspection, cleaning, and rehabilitation.

How trip relates to Agency's responsibility.

A trip is a means for the agency to ensure that it meets its operational, maintenance, safety, and service responsibilities effectively and efficiently.



GUAM WATERWORKS AUTHORITY
Travel Report

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10/13/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|---------------------------------------|---|
| Employee Name: Michelangelo Paul Cruz | Title/Unit Position: P/S Supervisor – Central Collections |
| Travel Date Begin: 9/24/2025 | Travel Date End: 10/3/2025 |
| TA No.: 500-437 | Travel Location: Chicago - WEFTEC |

Trip Objective:
WEFTEC CONFERENCE
Enhance Knowledge/Opportunity to research new innovations

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 Objective was met?

Participated in Technical trainings:

I/I source reduction

- In-depth instruction on using hydraulic and hydrological models

Condition Assessment

- Utilizing CCTV camera to inspect sewer line
- AI-based data analysis for prioritizing rehabilitation

Pump Station Improvement and Construction

- Design standards
- Energy efficient equipment
- Strategies for minimizing down time

What was learned?

- The effectiveness in I/I reduction
- Understanding condition assessment
- Redundancy planning
- SCADA integration
- Construction materials
- Emerging technologies



GUAM WATERWORKS AUTHORITY

Travel Report

How can GWA benefit from trip?

- Improvement planning by prioritizing more critical issue
- Enhance system reliability to extend asset life
- Help reduce operation cost
- Networking and technology sharing

10/28/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|--------------------|--------------------|----------------------|-------------------------|
| Employee Name: | Jonathan Arriola | Title/Unit Position: | Sewer Plant Operator II |
| Travel Date Begin: | September 25, 2025 | Travel Date End: | October 03, 2025 |
| TA No.: | TA 500-438 | Travel Location: | Chicago, Illinois |

Trip Objective: Attend WEFTEC event in Chicago and engage in the learning sessions offered through workshops and technical sessions. Also, to roam the vast conference and expo booths to gain experience and insight of the many technologies and research current.

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 was objective met?

Our itinerary was booked with me Paul and Chris under one ticket with hotel of our choice and paid for with a per-diem. We were given travel and commodity credit to help us along our trip which i used to pay for Ubers, and electric bikes and scooters. My hotel was one mile away and was able to walk to the convention center on some days. The WEF app was of great use to get an idea of the huge convention center’s layout, their daily schedules, and all the learning opportunities available through out the event.

What was learned?

Prior to the main event were scheduled workshops from which i signed up for “Microbiology for wastewater treatment”. It was a full day’s course upon which we learned the basics of the bio culture involved in wastewater treatment and the microorganisms involved that can indicate the bio systems status and can be able to possibly identify a near future upset. We got to learn how to use microscopes and did actual examinations on some slides of a wastewater sample. We studied a list of microorganisms and learned how to identify them correctly. We got to see actual movements of microorganisms and how they are affected in certain conditions.

The conference and expo, embodied a lot of companies from around the world showcasing their latest technologies and some their continuing services in the industry. Within the event were available “technical sessions” we can schedule to attend that covered many topics and latest research in the water and wastewater industry. One of the sessions were about how to improve activated sludge settling. Another was about how to use bio and chemical phosphorus to our advantage which is crucial to wastewater treatment.

How can GWA benefit from this trip?

GWA can benifit from this trip in many ways. One, it gives an operator in the water or wastewater field a broader perspective of the technologies available to treating and conveying water and wastewater. Second, it allows us to connect to other people in the same fields and relate to certain issues and can possible hear new resolves or “backyard” tricks to dealing with certain symptoms or how to operate an equipment more efficiently. Third, it can build confidence in team members who attended the event and inspire them to foresee positive changes and be aware of the advancing skills and equipments today.

How does the trip relate to agency’s responsibilities?

The trip relates to the agency’s responsibility and enlightens team members attending the event. In understanding the importance and the conveyance and treatment of water and wastewater, the trip exposes us to professionals in the field explaining how everyone working as a team is vital to a successful operation.

October 17, 2025

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|----------------------------------|---|
| Employee Name: KRISTOFER CRUZ | Title/Unit Position: SEWER PLANT OPERATOR I |
| Travel Date Begin: Sept.25, 2025 | Travel Date End: Oct. 3,2025 |
| TA No.: | Travel Location: Chicago, Illinois |

Trip Objective:

Attend the 2025 Water Environment Federation's Technical Exhibition and Conference (WEFTEC)

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.)

Attending the 2025 Water Environment Federation's Technical Exhibition and Conference (WEFTEC) in Chicago, Illinois offered numerous benefits for professionals in not only the water industry, but in related fields. It serves as a platform for international agencies and exchange of ideas in water and wastewater challenges. It is a valuable investment for individuals seeking to enhance their knowledge, expand their networks, and contribute to the future of water and wastewater management. The goals of WEFTEC are to promote knowledge sharing, advance technology, and support sustainability. As a first-time attendee, I found WEFTEC to be an overwhelming, but very knowledgeable and eye-opening experience that offered valuable insights and networking opportunities through both the workshops I attended and the various exhibition booths I visited.

One of the highlights of WEFTEC for me was the exhibition, where I had the opportunity to explore cutting-edge wastewater treatment technologies like pumps, motors, and pre-screening equipment. It was also a valuable networking experience, as I connected with industry experts and vendors, gaining insights into how their products could enhance plant operations. I shared my experience from working at Guam Waterworks Authority, receiving feedback that inspired new ideas for improving local treatment processes. Overall, the exhibition provided both a chance to network and a firsthand look at innovations that could benefit wastewater treatment on Guam.

Attending WEFTEC for the first time, was a great experience to help myself grow and learn more about our field and the different methods used around the world. I gained a better understanding of the different pumps, motors, and various equipment's used for the wastewater and water fields. GWA can benefit from the different methods and new technology shown from the exhibits, in future upgrades and new builds.

I'd also just like to thank GWA for being given the opportunity to attend and experience a WEFTEC.



GUAM WATERWORKS AUTHORITY
Travel Report

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KRISTOFER CRUZ 10-31-25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|------------------------------------|--|
| Employee Name: Vincent Pangelinan | Title/Unit Position: Operations and Maintenance Manager (WD) |
| Travel Date Begin: October 7, 2025 | Travel Date End: October 11, 2025 |
| TA No.: 26-445 | Travel Location: Palau |

Trip Objective:

Conduct AWWA-HIWPS workshop for Palauan high school students who will be graduating, and provide them an overview and benefits of becoming a water or wastewater operator. A second objective was to provide technical assistance and training for the Palau Public Utilities Corporation water and wastewater operators.

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.)

GWA held panel discussions with both Engineering/Regulatory professions and Utility Operators who described why they decided to go into water and wastewater operations. Discussions covered an array of questions from audience and highlighted significant benefits and challenges in the industry.

Workshop provided an overview to the PPUC on GWA's proactive approach to Water Loss, Leak Detection, Pump Maintenance, and Asset Management. Programs that went into a little more details are both the Pressure Zone Realignment (PZR) and the District Meter Area's (DMA) projects. GWA was able to illustrate how DMA's are constructed and the data that comes out from the DMA relative to water loss or non-revenue water (NRW). Furthermore a demonstration of how pressure reducing valves (PRV) work and practical locations where a PRV will be installed at.

Another topic discussed is the Tank Assessment and Inspection. Key areas are the Requirements for Tanks Assessments and Inspections, Lesson Learn on Tank Rehabilitation and Replacement, and Scope of Work Requirements.

Site tours were conducted at the Water Treatment Plant and two steel tanks that supply water to the main population of Koror, Palau. Learning more about their challenges and how they have addressed them. This was beneficial to both PPUC and GWA as we share the same challenges with logistics, resources, and natural disasters in this region.

 10/22/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|-----------------------------|---------------------------|
| Employee Name: Brett Railey | Title/Unit Position: AGME |
| Travel Date Begin: 11/8/25 | Travel Date End: 11/11/25 |
| TA No.: 26-446 | Travel Location: Palau |

Trip Objective: Outreach and workshop for Palau high school students and Palau utility officials.

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.)

Participated in forum with Palau HS students regarding careers in water and wastewater. Met with Palau utility personnel and toured surface water treatment plant and water storage reservoirs. Provided technical support and advice for water tank repair needs.

Guam is pursuing mutual aid arrangements with other utilities including Palau. Assisting neighbor utilities, having an understanding of their system similarities and differences, and conducting outreach and workshops to improve regional utility operation, maintenance and competence strengthens regional utility function and make GWA a regional leader in the industry.



GUAM WATERWORKS AUTHORITY
Travel Report

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Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|------------------------------------|---|
| Employee Name: Thomas Cruz | Title/Unit Position: Assistant General Manager - Operations |
| Travel Date Begin: October 7, 2025 | Travel Date End: October 10, 2025 |
| TA No.: 26-447 | Travel Location: Koror, Palau |

Trip Objective:

As the current chairman for the AWWA-Hawaii Western Pacific Subsection, which GWA was the lead in creating the organization, my involvement in AWWA-HIWPS activities is for the most part an extension to GWA's efforts to promote all aspects of the greater AWWA mission.

There were two objectives to the AWWA-HIWPS workshop planned in Palau, first was to educate what the water utility industry is all about to high school students in an effort to promote and encourage students to enter into our industry through operational jobs or engineering careers. The second objective was to meet with Palau Public Utility Corporation staff and conduct knowledge transfer on subjects such as water distribution management, asset management, capital improvements planning, 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.)

October 8th : I coordinated with the hotels events coordinator to confirm the conference room, audio and video equipment and food/beverages are set for the start of the workshop on October 9th.

Morning of October 9th : The workshop for the high school students started at 8:30am until 12pm. During this workshop the AWWA-HIWPS team presented slides that discussed 1) why water and wastewater treatment is so important to a community, 2) why one would decide to go into water and wastewater operations and what are their daily job responsibilities, 3) what do water and wastewater operators do, 4) what does it take to become an engineer in the water and water utility.

Afternoon of October 9th : open discussion with PPUC management about Palau's water and wastewater systems from the reliability of water sources, quality and quantity of supply, assessment management, distribution networks and the condition of reservoirs, how to strengthen operator skills, improve maintenance practices, and explore how to address critical issues despite limited resources. The goal is to share insights and identify practical solutions.

Morning of October 10th : open discussion with PPUC operations personnel on topics such as operator training and certification program, system water loss, leak detection, system pumps, asset management, steel tanks assessment and inspection.

Afternoon of October 10th : conducted site visits with PPUC operations personnel and discussed recommendations on capital improvements.

I believe the objectives stated above were met given the feedback from the PPUC members and students who attended the workshops. This trip did not result in a direct benefit back to GWA however GWA's commitment to the AWWA-HIWPS organization and my participation in the workshop does align with the General Managers commitment to supporting our neighboring pacific island's efforts to improve the welfare of the community through sustainable water and wastewater operations.

 10/17/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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| Employee Name: Josephine SN Paulino | Title/Unit Position: Utility Administrative Assistant |
| Travel Date Begin: Monday, October 13, 2025 | Travel Date End: Saturday, October 18, 2025 |
| TA No.: 26-444 | Travel Location: Las Vegas, Nevada |

Trip Objective: Attend the Administrative Excellence 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.)

I had the opportunity to attend the 2025 Conference for Administrative Excellence in Las Vegas, hosted by Office Dynamics International. The conference brought together administrative professionals from across the US to share strategies, tools, and inspiration for improving effectiveness, leadership, and communication within our organizations.

My main objective in attending was to strengthen my administrative and leadership skills to better support GWA's mission and operations. This goal was met through engaging keynote presentations, hands-on workshops, and networking sessions that focused on organization, time management, communication, and adaptability. I gained valuable insights into how to prioritize work more efficiently, foster teamwork, and maintain professionalism and positivity in a fast-paced environment.

One key takeaway was the reminder that administrative professionals play a vital leadership role behind the scenes. We contribute directly to the success of our teams by ensuring that systems run smoothly, communication flows clearly, and challenges are handled with flexibility and confidence. The conference also highlighted tools and techniques that can help streamline daily operations and improve collaboration—skills I can apply at GWA.

By implementing what I learned, I can help enhance internal efficiency, improve support to management and staff, and promote a more organized and responsive work environment. Sharing these best practices with colleagues will further strengthen our collective ability to serve our customers.

Attending this conference directly supports GWA's mission to provide outstanding customer service through safe, reliable, responsible, and cost-effective water and wastewater services. Strengthening our administrative effectiveness ultimately helps ensure that our organization continues to operate smoothly and deliver excellent service to the community.

Overall, the conference was an inspiring and valuable experience that renewed my motivation to grow professionally and contribute to GWA's ongoing success.



Traveler Signature and Date

October 30, 2025



GUAM WATERWORKS AUTHORITY
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|---------------------------------|--|
| Employee Name: Taling M Taitano | Title/Unit Position: Chief Financial Officer |
| Travel Date Begin: 10/22/2025 | Travel Date End: 10/31/2025 |
| TA No.: 26-448 | Travel Location: Nashville, Tennessee |

Trip Objective:

The objective of this trip was to attend the Post-Issuance Compliance (PIC) Workshop to strengthen GWA’s knowledge and application of federal tax rules governing tax-exempt bonds. The workshop provided in-depth guidance on managing private business use, monitoring arbitrage rebate, maintaining proper documentation, and ensuring accurate and timely continuing disclosure. Participation supports GWA’s responsibility to safeguard the tax-exempt status of its bonds and maintain credibility in the municipal bond market.

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.)

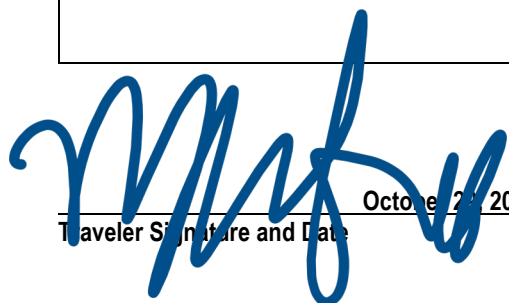
The sessions provided a comprehensive review of post-issuance compliance requirements for tax-exempt bonds, including tracking bond expenditures, investment of proceeds, and documenting the use of bond-financed facilities. The importance of maintaining consistent internal controls and clear recordkeeping practices was emphasized as essential to preserving the tax-exempt status of outstanding bonds.

A key focus of the workshop was understanding and monitoring private business use (PBU). Presenters outlined how leases, management agreements, research collaborations, or third-party use of bond-financed property can unintentionally create PBU exposure. The sessions provided practical tools and examples for identifying and calculating PBU, and highlighted safe harbor provisions to help avoid violations.

The workshop also addressed arbitrage rebate compliance in a higher-interest-rate environment, where positive arbitrage is more likely to occur. Guidance was provided on tracking investment earnings, evaluating rebate liability, and ensuring accurate calculation and timely filing of required forms. Additionally, the SEC session reinforced best practices for municipal market disclosure, emphasizing reliability and timeliness in EMMA filings to maintain market transparency and investor trust.

Overall, the training supports GWA’s ongoing efforts to maintain a strong compliance framework, reduce regulatory risk, and prepare for future bond issuances. Lessons learned will be incorporated into internal contract review, documentation retention, and continuing disclosure procedures to ensure continued alignment with IRS and SEC expectations.

The training was organized by Orrick and BLX.



October 23, 2025

Traveler Signature and Date



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


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|-------------------------------------|--|
| Employee Name: Miguel C. Bordallo | Title/Unit Position: General Manager |
| Travel Date Begin: October 14, 2025 | Travel Date End: November 15, 2025 |
| TA No.: [REDACTED] 26-449 | Travel Location: Austin, TX (AMWA) and San Francisco, CA (EPA) |

Trip Objective:

- 1) Participate in AMWA Utility Executive Management Conference
- 2) Meetings with US EPA Region 9 Officials re: GWA's Dieldrin Treatment Response Actions

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. **Objectives Met (AMWA Utility Executive Management Conference): Sunday October 26th – Tuesday October 28th:** Attended registration and welcome events; participated in networking events and conferred with utility executives from Alabama, Texas, Illinois and other jurisdictions on compliance issues, capital financing challenges, and affordability for ratepayers. Attended presentation by Austin Mayor, Kirk Watson, and AMWA Business Meeting presided over by AMWA President Jeff Szabo. Attended interactive workshop on Fostering High-Performing Cultures targeting leadership transformation, collaborative communication and strategies for improving performance culture within utility organizations. Attended 13 technical sessions on topics including workforce development, utility safety, strategic planning, Non-revenue water, capital financing strategies, organizational change, utility resilience and building public trust through communications. Initiated contact with author and developer of "Waterworks Excellence" initiative for independent evaluation of utility performance through standardized "report cards."
2. **Objectives Met (US EPA SRF and Enforcement Program meetings):** Conducted multiple meetings with CCU Chairman and EPA personnel on:
 - a. GWA's grants under the EPA SRF Grant program: new project officer and general performance
 - b. EPA Drinking Water Program: assessment and discussion of GWA's performance in dealing with Dieldrin contamination
 - c. EPA Emergency Response: discussion of GWA's Mawar response and coordination on improving EPA-GWA collaboration on emergency response and reporting/information management
 - d. Dieldrin and PFAS Progress: Discussion with EPA Region 9 Deputy Regional Administrator (Cheree Peterson), Water Division leadership (Tomas Torres, Konner), Community Engagement (Laura Ebbert, Jared Vollmer), and Enforcement (Amy Miller) on GWA's efforts for treatment for dieldrin and PFAS, and implications on future enforcement actions.
3. **How did GWA benefit:**
 - a. AMWA EMC: GWA benefitted through management interaction with other utility leaders to improve utility performance with respect to communications, leadership development, strategic planning, resilience and utility performance metrics.
 - b. EPA Meetings: GWA benefitted by in-person education and explanation to Region 9 leadership on the effectiveness and adequacy of GWA's response to dieldrin and PFAS contamination, and our overall compliance with Safe Drinking Water Act requirements, in order to avoid additional costly compliance actions by federal regulators.
4. **How this relates to GWA Responsibilities:** The activities, objectives and benefits described above are all directly related to improving GWA's operations, management and regulatory compliance.


2025.11.24
Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Trip Report

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| Employee Name: Franics E. Santos | Title/Unit Position: Commissioner, CCU |
| Travel Date Begin: November 11, 2025 | Travel Date End: November 15, 2025 |
| TA No.: 26-453 | Travel Location: San Francisco, CA |

Trip Objective:

The objective is to participate in meetings with US EPA Region 9 Officials re: GWA's Dieldrin Treatment Response Actions

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 objectives are to participate in multiple meetings with GWA General Manager, Miguel Bordallo, US EPA personnel, and I, CCU Chairman regarding US EPA SRF and Enforcement Programs.

Meeting included discussions on: 1) GWA's grants under the EPA SRF Grant program: new project officer and general performance; 2) EPA Drinking Water Program: assessment and discussion of GWA's performance in dealing with Dieldrin contamination; 3) EPA Emergency Response: discussion of GWA's Mawar response and coordination on improving EPAGWA collaboration on emergency response and reporting/information management; 4) Dieldrin and PFAS Progress: Discussion with EPA Region 9 Deputy Regional Administrator (Cheree Peterson), Water Division leadership (Tomas Torres, Konner), Community Engagement (Laura Ebbert, Jared Vollmer), and Enforcement (Amy Miller) on GWA's efforts for treatment for dieldrin and PFAS, and implications on future enforcement actions.

These meeting are directly related to improving GWA's operations, management, and regulatory compliance.

F. Santos 11/14/26

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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|-------------------------------------|---|
| Employee Name: Vincent Pangelinan | Title/Unit Position: Operations & Maintenance Manager |
| Travel Date Begin: December 1, 2025 | Travel Date End: December 6, 2025 |
| TA No.: TA 26-450 | Travel Location: Louisville, KY |

Trip Objective: Continue to learn effective ways of addressing Non-Revenue Water (NRW). Understand how other utilities are reducing water losses and increasing efficiency.

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 North American Water Loss (NAWL) conference facilitates ways to address water loss challenges, leakage management, and innovative solutions in water management. Keynote presentations, case studies, workshops, technical sessions, and interactive panel discussions focusing on the latest advancements in water loss control, pressure management, and smart water technologies assist utilities with addressing NRW and improve sustainable water management.

Technical courses attended include Managing Production Flowmeter Installations and the Volume of Water Supplied, Building Better Water Loss Programs, and Pinpointing the Problem. These courses complemented each other, as they highlighted Water "Use" Reporting Trends, Production Meters, the different types of flow meters, and meter accuracies (AWWA M33 Manual). Each session touched on District Meter Areas (DMA) on the development and attaining the data for the mass balance.

A District Meter Area (DMA) is a defined section of a water distribution network created by closing boundary valves or disconnecting pipes to monitor flow and manage leakage. Daily water production and customer demands are monitored. Any issues such as unusually high or low demand can indicate an issue in DMA such as a possible water main leaks or a faulty meter. Utilities focus on testing production meters and large top volume customer meters regularly within certain DMAs. Small meter testing and analysis is performed as well.

The conference had case studies presented by Water Purveyors that implemented strategies for NRW management. Some of them were Louisville Water, San Antonio Water System, and Southern Nevada Water Authority. Key takeaway points are:

- DMA Implementation
- AMI Metering for customers
- Monitoring Reports (Demand, Production, Leaks, Operations, etc)
- Water Audits & Water Balance (AWWA M36)
- Validation of Water Audit Level I and Level 2 Validation
- Production Meter Testing / Replacement
- Water line replacement for problematic areas

The reduction of Non-Revenue Water (NRW) is critical among all utilities. Addressing NRW takes a combined effort with more people understanding the percentage of water loss within the utility. When a water audit is conducted and validated, it should be shared with the different divisions within the utility so resources and practices can be implemented effectively to help address NRW.

12-22-25

Traveler Signature and Date



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| Employee Name: Michael J. Benavente II | Title/Unit Position: Pumping Station Leader |
| Travel Date Begin: November 28, 2025 | Travel Date End: December 6, 2025 |
| TA No.: | Travel Location: Louisville, Kentucky NAWL |

Trip Objective:

To attend the North American Water Loss Conference 2025

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 am grateful to attend my first NAWL Conference and sure hope this won't be my last. Throughout the conference I learned a lot of new things related to Water Loss and understanding more of how to approach different situations in regards to water loss in our day to day job. People from all over the world had attended this conference and it was great to meet new people in the same industry that I am in.

First off, I was able to attend a presentation on Water Loss Fundamentals and it was very informative for me given that I wasn't fully aware of all the things that go into understanding how to calculate water loss. They spoke about several types of methods that they use to conduct assessments from; Invasive, Non-Invasive and Artificial Intelligence. One of the methods that stood out was a Non-Invasive method where they would train dogs to smell for chlorine. They didn't go into much detail given that it was part of a presentation later in the conference. Just understanding about all the different types of water loss we have out there whether it would be main breaks, service line leaks, consumers stealing water from hydrants to tampering with service lines and so forth. Its just a real eye opener into how we can use some of this new technology to help our system and for me handling the southern stations and reservoirs, I plan to use some of the knowledge I learned and inform my team so we can help our system and ultimately help our agency with the water loss issue we have.

Secondly, I attended a presentation on where they spoke about understanding NRW (Non-Revenue Water) and they explain about having a 5 gpm leak for over a year and compared it to a 100 gpm leak for 14 days and just understanding the numbers and how many gallons would be lost in a year with a small leak was very interesting to me. That just shows that it don't matter the size of the leak but over time it will accumulate more water being loss. They even went into explaining about how different obstacles they come across when conducting leak detection assessments from; hidden lines that aren't mapped out, environmental noise caused by surrounding buildings or traffic area due to noise being picked up on their devices, inaccurate mapping where lines aren't where it shows on the map and then equipment limitations where you would need additional equipment to further investigate where the potential leak would be. Having more of an understanding of what additional work go into conducting these assessment have made me realize that we can do so much more if we share this knowledge and I plan to do so with my team.



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Lastly, the presentation that was most appealing to me was the K9 Water Leak Detection. So, before the class started the presenter took a sample container that had chlorine water in it and placed it in a random place underneath one of the chairs in the room. He then proceeded to his presentation and was very thorough with how they would train the dog and the benefits from it. They explained how their trained dogs could clear an area of a suspected water leak fairly quickly given that it was trained to rule out rain water and that was interesting given that we have a few of those call outs for suspected leaks and if we can't find the flow we would request for leak detection to sound and survey area. Then they brought the dog into the room and after a few minutes of sniffing around the room the dog was able to locate the chlorine water and brought the trainer to where the water was. This would be very helpful for us given that sometimes it's hard to locate leaks sometimes or we respond to areas of suspected leaks but if we had one of these dogs trained it would help us find leaks and rule out non leaks faster.

In closing, this conference helped me realize what other agencies all over the world have encountered and continue to go through at their jobs. Aside from the presentations, the Exhibit Hall was a great experience given this was my first conference but seeing all these different companies advertising their equipment. I saw some companies that GWA has dealt with and others that I have never heard of before. I got to see different parts that would help benefit our day-to-day job and the companies were very open to explaining and gave some brochures and hopefully someday GWA can bring some more of these parts in to help the operators out on the field. I also was able to see these Insertion meter that I feel would be beneficial to our system so that we could better understand how much water is going into certain areas in our system and that would help narrow the areas done of potential leaks in our system.

12/24/25

Traveler Signature and Date



GUAM WATERWORKS AUTHORITY

Travel Report

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| Employee Name: Jermaine Dydasco Castro | Title/Unit Position: LDT/ Leak Detection Technician Leader |
| Travel Date Begin: 11/30/25 | Travel Date End: 12/6/25 |
| TA No.: | Travel Location: Louisville, Kentucky |

Trip Objective:

Attend conference to learn from numerous water agencies about how they approach non-revenue water.

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.)

Attending the AWWA/NAWL Conference was a great experience. The conference was well organized and displayed many different methods that could help bring down the non-revenue water percentage for GWA. The presenters were very informative and were able to provide a response to any questions asked. I learned about non-invasive and invasive leak detection. Non-invasive meaning that only accessing leaks from outside of the water line and invasive dealing with them inside the water line. Main topics that I attended dealt with DMA's, Data loggers, correlators and how effective a step-test can help narrow down area that needs to be surveyed. The Exhibit Hall was one of the best parts of the conference. I've seen many different brands of the type of equipment we have here at GWA. Walking up to a booth and being able to speak with representatives about their products and how they use them in their system. Spoke with several people about their experience with correlators and loggers and how often they use the equipment. Most of these agencies utilize them daily and especially when having spikes in a DMA. They would utilize this type of equipment prior to sending a leakage team out. This would help them find a point of interest in where to start the survey. This would save GWA time and money in finding the problem sooner and moving on to tackling water loss in other areas. Speaking with other agencies was beneficial, with exchanging methods and techniques used daily. Some of the representatives recommended that we use the equip and date as a first step to trouble shooting a leak. I was able to try different ground microphones from Pipe Tools and Sewerin. Sewerin has new attachments that they said have improved the quality for their ground mics, which can be ordered separately to use for our equipment on island. Learned that pressure loggers can also help monitor leaks in a water distribution system. Pressure loggers can help you with alerting you right when the problem happens and addressing them right away. With being a part of the Leak Detection Team for 3 years now, this has brought numerous ideas and methods that can help us with our daily operations and grow as a section. As a Leak Detection Technician Leader, I will share these methods with the team out in the field and continue to work together to bring down GWA's non-revenue water.



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Travel Report

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Traveler Signature and Date