



**Guam Solid Waste Authority  
Board of Director's Meeting  
Agenda**

Thursday, December 15, 2022, 1:00pm  
via video conference

- I. Call to order
- II. Roll Call
- III. Determination of Proof of Publication
- IV. Approval of Agenda Items
- V. Approval of Minutes
- VI. Reports
  - a. Management reports
    - i. Operational Update
    - ii. Financial Update
  - b. Legal Counsel's Report
  - c. Committee Reports
- VII. Unfinished Business
  - a. Ordot Post Closure Plan update
  - b. Island Wide Trash Collection Initiative
  - c. Layon Cells 1 and 2 Closure
  - d. Rate Case with the Public Utilities Commission
- VIII. New Business
  - a. Salary Adjustment for Irvin Slike, GSWA General Manager
  - b. Procurement of Legal Counsel
- IX. Communications and Correspondence
- X. Public Forum: members of the public to contact GSWA to be placed on the agenda if they wish to address the board.
- XI. Next meeting
- XII. Adjourn



**GUAM SOLID WASTE AUTHORITY  
BOARD OF DIRECTORS' MEETING MINUTES  
Thursday, November 17, 2022  
1:05 pm – 2:29 pm  
Guam Solid Waste Authority Via Video Conference**

**I. Call to Order**

Chairman Gayle called the meeting to order for the Guam Solid Waste Authority (GSWA) Board of Directors' meeting at 1:05 pm.

**II. Roll Call**

**Board Members:**

Andrew Gayle	Chairman
Minakshi Hemlani	Vice Chairwoman
Peggy Denney	Secretary
Cora Montellano	Member
Jim Oehlerking	Member

**Management & Staff:**

Irvin Slike	General Manager
Katherine Kakigi	Comptroller
Alicia Fejeran	Chief of Administration
Roman Perez	Assistant General Manager of Operations (Acting)
Keilani Mesa	Administrative Officer
Ronalene Presto	Administrative Assistant

**Guests:**

George Lujan	Office of Senator Sabina Perez
Attorney Sandra Miller	Office of the Attorney General
John O'Connor	Guam Daily Post Reporter
David Lore	Guahan Waste Control

**III. Determination of Proof of Publication**

1st Publication with The Guam Daily Post on Thursday, November 10, 2022

2nd Publication with The Guam Daily Post on Tuesday, November 15, 2022.

**IV. Approval of Agenda Items**

GSWA Board members approved the agenda items.

**V. Approval of Minutes**

Vice Chairwoman Hemlani made a motion to approve the minutes from the meeting held on Thursday, October 20, 2022. Board member Oehlerking seconded the motion. There was no discussion, and the motion passed unanimously.

**VI. Reports**

**a. Management Reports**

**I. Operational Update**



General Manager Irvin Slike reported that since October, GSWA revenues increased by about \$70K and expenses decreased by the same amount. He hopes to use the excess funds to off-set costs. He also reported that he will be meeting with GWA to discuss the rate that is currently being charged for the Ordot landfill leachate. He will update the Board at the next meeting on the outcome of that meeting.

## **II. Financial Update**

Comptroller Kakigi presented the funding sources that will be available to GSWA this coming year. \$18.8M was approved for GSWA to spend. Also included is \$400,000 from the Recycling Revolving Fund which will be a continuing appropriation. The equipment fund balance was utilized to purchase three trucks at \$1.3M. Under the Carryover ARPA funds, \$7.9M will be used to fund the capital equipment to adopt the Island Wide Trash Collection initiative. \$3M from the ARPA funds will fund operations for the Layon operator and the hauler transfer station. October is showing a positive trend with increase of \$70K compared to budget with revenues following the same trend with an increase in commercial fees; however, there is a decrease from the GWA sludge which is expected to continue to reduce by 50%-70%. Revenues are tracking a total net increase of 2.8%, with a positive report on tipping fees. Total expenditures are expected to increase due to contractual obligations with increase in CPI's. GSWA met its target for collection efforts and residential customers continue to increase. Refuse trucks purchased are expected to be received by May 2023. By the end of the fiscal year, GSWA plans on purchasing a total of 10 refuse trucks.

### **b. Legal Counsel's Report**

Attorney Miller reported to the Board that she had nothing to report regarding the lawsuits. She did inform the Board about the upcoming PUC hearing concerning the PHRS Temporary Employee contract.

### **c. Committee Reports**

No discussion

## **VII. Unfinished Business**

### **a. Ordot Post Closure Plan Update**

Chairman Gayle reported to the Board that the Receiver, Department of Justice, US EPA, Guam EPA, GSWA Management, GSWA Board, the Attorney General's Office, and GEDA have been meeting weekly to develop a report for next month's status hearing. A major issue is the proposed Post Closure cost which is based primarily on the volume of leachate being generated. An investigation is being done to determine why there is an increase in leachate when it should be decreasing. They also discussed a possible plan which will be based on the feedback of the local and federal regulators. The report is due next month, with the hearing to follow shortly after. The main issue is trying to figure out what the financing requirements would be and how the regulator will ensure that GSWA will be able to fund those future expenses. Currently, \$2M per year is funded by GSWA revenues which then go into a reserve account controlled by the Receiver for the current expenditures. In addition, the rate being charged for the leachate is also being discussed with GWA based on the consultant's report that the composition of the leachate is weaker, thus warranting a different rate.

### **b. Island Wide Trash Collection Initiative**

Chairman Gayle reported that the legislation is still being drafted for this initiative.



**c. Layon Cells 1 and 2 Closure**

General Manager Slike reported that GHD, the consultants that built cell 3, has offered 10 rolls of bentonite mat material. Mr. Slike intends to use this material to do a partial closure on Layon cells 1 and 2. Chairman Gayle requested that Mr. Slike work with Attorney Miller to ensure proper procurement for this transaction.

**d. Rate Case with the Public Utilities Commission**

General Manager Slike and Comptroller Kakigi informed the Board that there will be a meeting on November 28<sup>th</sup> to discuss the latest schedule. Utilities Financial Solutions presented some options on rate models.

**VIII. New Business**

**a. Contract Term Amendment for Kathrine Kakigi, GSWA Comptroller**

General Manager Slike informed the Board that he would like to amend Comptroller Kakigi's contract term for 4 years with a 1-year renewal. Vice Chairwoman Hemlani made a motion to approve and member Montellano seconded the motion. The motion passed unanimously.

**b. GSWA Board Resolution No. 2023-005 – Relative to Petitioning the Public Utilities Commission (PUC) for the Approval of the award to Pacific Human Resources Services Inc. for Temporary Staffing Services**

General Manager Slike informed the Board that the resolution provided indicates the adjusted contract amounts with PHRS. Customer service and other administrative positions will end effective January 2, 2023. Positions filled by PHRS will be limited to Sanitation Workers and Equipment Operators. Mr. Slike intends to move temporary employees to fill permanent positions in the future. This Board resolution will supersede the Board Resolution No. 2022-013. Vice Chairwoman Hemlani made a motion to approve Board Resolution No. 2023-005. Board member Oehlerking seconded the motion. There was no discussion, and the motion passed unanimously.

**c. GSWA Board Resolution No. 2023-006 – Relative to Approving the Above Step Recruitment for Heavy Equipment Mechanic Leader**

General Manager Slike informed the Board that GSWA found a candidate who qualifies to fill the above mentioned position. He is requesting to hire him at an L-10 due to recruitment difficulty and exceptional qualifications and to retain this individual. Board member Oehlerking made a motion to approve Board Resolution No. 2023-006. Board member Montellano seconded the motion. There was no discussion, and the motion passed unanimously.

**IX. Executive Session**

**a. Performance Review of Irvin Slike, GSWA GM**

Vice Chairwoman Hemlani made a motion for the Board to move into executive session to discuss the performance evaluation of GSWA General Manager Irvin Slike. Member Oehlerking seconded the motion. No further discussion and the motion passed unanimously.

**X. Communications and Correspondence**

No discussion

**XI. Public Forum: Members of the public to contact GSWA to be placed on the agenda if they wish to address the board.**

No discussion.



**XII. Next meeting**

The next meeting will be via video conference on Thursday, December 15, 2022, at 1:00 pm.

**XIII. Adjourn**

Member Montellano made a motion to adjourn the meeting, and Vice Chairwoman Hemlani seconded the motion. The motion passed unanimously, and the meeting adjourned at 2:29 pm.

**OBITUARIES**

**BERNADIT DUENAS MENO**

Bernadit “Bernie” Duenas MENO, family member of Malojloj, died Dec. 5 at the age of 62. Rosary is said at 7 p.m. on Zoom and at 232E Sueno Lane, Toto. Limited parking is available at the residence. Rosary will end Dec. 13. Meeting ID: 972 270 8400, passcode: Bernie Zoom meeting: <https://us04web.zoom.us/j/9722708400?>



**BERNIE V. MARANAN**

Bernie V. Maranan, of Mangilao, died Nov. 27 at the age of 67. Viewing and last respects may be paid from 8:30 a.m.-2 p.m. Dec. 20 at Our Lady of Peace Funeral Home, Barrigada. Interment service will follow immediately at Our Lady of Peace Memorial Gardens, Windward Hills, Yona.



**JIMMY KUMIYAMA BORJA**

Jimmy “Jim”/ “Papa Jim” Kumiyama Borja, of Chalan Pago and Barrigada, died Dec. 5 at the age of 57. Family rosary being said at noon at June and Brooke Borja’s residence #211-C Lizama Street, Barrigada. Mass of Intention, followed by rosary, is being celebrated 6 p.m. Dec. 7, 9, 12, at 10 a.m. Dec. 8, rosary TBA, at 5:30 p.m. Dec. 10 and at 10 a.m. Dec. 11 at San Vicente/San Roke Catholic Church, Barrigada. Last respects will be held from 9 a.m.- noon Dec. 13 at San Vicente/San Roke Catholic Church, Barrigada. Mass of Christian Burial will follow memorial service at 1 p.m. at San Vicente/San Roke Catholic Church. Interment to follow at Guam Memorial Park, Leyang, Barrigada.



**PHILLIP MAUIKINA TAM**

Last respects for Phillip Mauikina Tam will be held from 10 a.m.-noon Dec. 10 at San Agustin Funeral Home, Tamuning. Interment service and private cremation will follow at Our Lady of Peace Memorial Gardens, Windward Hills, Yona.

**KIMARA JEAN LAYSON CRUZ**

Kimara Jean Layson Cruz, of Chalan Pago, died Dec. 1 at 15 months. Rosary is being said at 6 p.m. nightly at Adacao ranch, Latte Heights. Mass of Christian Burial will be celebrated at 10 a.m. Dec. 14 at Santa Teresita Catholic Church, Mangilao. Viewing and last respects will follow from noon-2:30 p.m. at Our Lady of Peace Memorial Chapel, Windward Hills, Yona. Interment service will



be held at Our Lady of Peace Memorial Gardens, Windward Hills, Yona.

**BRIC PONIENTE MABESA**

Bric P. Mabesa, of Sinajana, died Sept. 27 at the age of 91. Last respects will be held at 10 a.m.-noon Dec. 22 at Guam Memorial Funeral Home Chapel in Leyang, Barrigada. Interment to follow at Guam Memorial Park, Leyang, Barrigada.

**JOSEPH MARTIN KOSAKA PANGELINAN**

Joseph “Ga’ga” Martin Kosaka Pangelinan, of Ipan, Talo’fo’fo’, died Dec. 1 at the age of 51. Mass of Intention is being celebrated at 5 p.m. Monday-Friday, 5:30 p.m. Saturday, and 6 a.m. and 10 a.m. Sunday at Our Lady of Peace and Safe Journey Catholic Church, Chalan Pago. Viewing and last respects may be paid from 11 a.m.-2 p.m. Dec. 9 at Our Lady of Peace Memorial Chapel, Windward Hills, Yona. Mass of Christian Burial will be celebrated at 11 a.m. Dec. 10 at St. Francis of Assisi Catholic Church, Yona. Interment service will follow immediately at Our Lady of Peace Memorial Gardens, Windward Hills, Yona.



**FRANCES BABAUTA SANTOS CRUZ**

Frances “Anching” Babauta Santos Cruz, family member of Duckit, of Hågat, died Nov. 27 at the age of 70. Last respects will be held from 4:30-7:30 p.m. Dec. 9 at Guam Memorial Funeral Home Chapel, Leyang, Barrigada. Mass of Christian Burial will be celebrated at noon Dec. 10 at Our Lady of Mount Carmel Catholic Church, Hågat, followed by interment at Guam Veterans Cemetery, Piti.



**MARGARET S. AGUON**

Margaret S. Aguon died Nov. 20 at the age of 75. Last respects will be held from 8-11 a.m. Dec. 9 at Guam Memorial Funeral Chapel in Leyang, Barrigada. Mass of Christian Burial will be celebrated at noon at San Vicente/San Roke Catholic Church, Barrigada, followed by interment at Guam Memorial Park.



**LUKE GORDON TOVES PAULINO**

Luke “Gord” Gordon Toves Paulino, family member Bernabe/Katingo, of Barrigada, died Nov. 10 at the age of 50. Last respects will be held from 8:30-11:30 a.m. Dec. 9 at Ada’s Mortuary, Sinajana. Mass of Christian Burial will be celebrated at noon at Immaculate Heart of Mary Catholic Church, Toto. Private cremation will follow.



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**NOTICE OF MEETING**

The Guam Board of Accountancy will hold a virtual Board meeting on Thursday, December 15, 2022 at 4:00 p.m. This meeting is open to the public via Zoom Video Conference. Anyone desiring to join the virtual meeting may enter the following link in a browser:  
Meeting URL: <https://us06web.zoom.us/j/87461560561?pwd=VlQ1bRjRNYWVlUe9jYWRSEV0cmdOdz09>  
Meeting ID: 874 6156 0561 • Passcode: 6i6a3@Gnew

Our YouTube livestreaming events link for all Regular Board Meetings is available on the Board’s website at: <http://www.guamboa.org/policies/activities.htm>.

**AGENDA**

- I. CALL TO ORDER
- II. APPROVAL OF MINUTES - November 17, 2022
- III. OLD BUSINESS
  - Guam Accountancy Endowment Fund Update
- IV. NEW BUSINESS
  - A. Requests for Approval
    - Applications for Initial Certification & Licensure
    - Credit Extensions
- V. GENERAL DISCUSSION/ANNOUNCEMENTS
  - CPE Audit Service OKTA Transition
  - Guam Overall 2022-Q3 Exam Performance
  - Guam Financial Summary - November FY2023
- VI. ADJOURNMENT

The names of applicants being considered are available on the Board’s website at: <http://www.guamboa.org/policies/activities.htm>, along with other Board meeting materials. Detail materials will be available on the website one day before the meeting. Individuals requiring special accommodations or information may contact Ms. Anna Aflague at the Guam Board of Accountancy at 671-647-0813 FAX: 671-647-0816 or [support@guamboa.org](mailto:support@guamboa.org) for assistance.



**Guam Solid Waste Authority Board of Directors  
Regular Meeting  
Thursday, December 15, 2022 - 1:00 PM (ChST)**

Join Zoom Meeting:

Link: <https://zoom.us/j/9140408814?pwd=TjZ3U0dHSVd0ajlKRjBhcWFrclZlZz09>  
Meeting ID: 914 040 8814 • Passcode: 777546

The Guam Solid Waste Authority Board of Directors will have a board meeting December 15, 2022 at 1:00 PM. The meeting will be conducted via Zoom.

**AGENDA**

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- XII. Adjourn

Access live stream of the meeting on GSWA website:  
<https://www.guamsolidwasteauthority.com/>

For more information, please contact GSWA Chief of Administration, Alicia Fejeran, at [Alicia.Fejeran@gsua.guam.gov](mailto:Alicia.Fejeran@gsua.guam.gov) or 671-646-3111. Persons needing telecommunication device for the Hearing/Speech Impaired (TDD) may contact 671-646-3111.

This advertisement was paid for by GSWA.

*Funeral and Rosary*

ANNOUNCEMENTS

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**GUAM ENVIRONMENTAL PROTECTION AGENCY**  
**AHENSIAN PRUTEKSION LINA'LA GUAHAN**

**BOARD OF DIRECTORS REGULAR VIRTUAL BOARD MEETING:**

**Thursday, December 15, 2022 • 4PM • Google Meet: [meet.google.com/ovc-ixng-ahe](https://meet.google.com/ovc-ixng-ahe)**  
**Live streamed on [youtube.com/guamepa](https://youtube.com/guamepa)**

**AGENDA: I.** Call to Order; **II.** Approval of Agenda; **III.** Approval of November 17, 2022 Meeting Minutes; **IV.** Administrator's Report: Outstanding Notices of Violation Update, In-Depth Update on Environmental Monitoring and Analytical Division; **V.** New Notices of Violation; **VI.** New meeting date and adjournment

*Individuals requiring special accommodations, auxiliary aids or services may call Guam EPA at 671.300.4751/9 or email: [arlene.acfalle@epa.guam.gov](mailto:arlene.acfalle@epa.guam.gov)*

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**Guam Solid Waste Authority Board of Directors**  
**Regular Meeting**  
**Thursday, December 15, 2022 - 1:00 PM (ChST)**

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This advertisement was paid for by GSWA.

**NOTICE OF PUBLIC MEETING**  
**COMMISSION ON POST-MORTEM EXAMINATIONS**

**Tuesday, December 20, 2022 at 10:00 a.m. via Zoom**  
**This meeting is open to the public via**  
**YouTube Live Stream Link: [oagguam.org/live](https://oagguam.org/live)**

**AGENDA**

- I. Meeting Called To Order
- II. Roll Call Of Members
- III. Open Government Compliance
  - A. Publication, December 13, 2022
  - B. Publication, December 16, 2022
  - C. Live Broadcasting Platform Announcement
  - D. GovGuam Notices Portal & Website Posting
- IV. Approval of Prior Minutes, November 22, 2022
- V. Old Business
  - A. Proposed Legislation Fee
- VI. New Business
  - A. Reports & Updates: Dr. Jeffrey Nine, Chief Medical Examiner (CME)
  - B. Staffing Status
  - C. Locum Tenens Contract Status
  - D. Agreement with NMI
- VII. Adjournment

For more information or to arrange for ADA accommodations, please contact Karina Quito at (671) 475-3324 ext. 5017

Meeting location: Department of Administration Conference Room  
 Suite 224, 2nd Floor, ITC Building, Tamuning

*This advertisement was paid with government funds by the Office of the Chief Medical Examiner.*



**JUDICIARY OF GUAM**

Guam Judicial Center  
 120 West O'Brien Drive  
 Hagatna, Guam 96910  
[www.guamcourts.org](http://www.guamcourts.org)

**REQUEST FOR PROPOSAL**  
**RFP NO. 23-01**  
**DIGITAL EVIDENCE SOFTWARE**

The Judiciary of Guam is accepting proposals from qualified vendors to provide **Digital Evidence Software** for the Judiciary of Guam.

Interested and qualified vendors may request for an electronic copy of the RFP from the Procurement Office located in Guam Judicial Center, 1st Floor, 120 West O'Brien Drive in Hagatna, Guam beginning **Tuesday, December 13, 2022 (Guam Standard Time) from 8:00 a.m. to 5:00 p.m., Monday thru Friday**, except Government of Guam holidays.

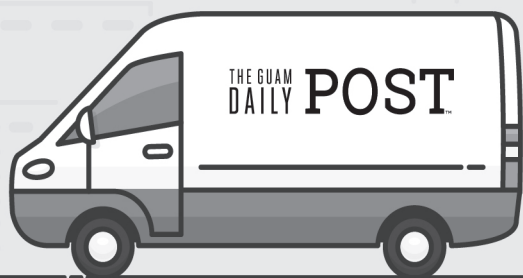
All proposals must be submitted to the Procurement Office **no later than 2:00 p.m. January 13, 2023 (Guam Standard Time)**. Late proposals will not be considered.

For any periodic updates of the RFP please visit the Judiciary's website <http://guamcourts.org>. For more information, and to request for electronic copy of the RFP, please contact the Procurement Office at **(671)475-3393/3175/3141/3290** or email at **[jpcepeda@guamcourts.org](mailto:jpcepeda@guamcourts.org)** and/or **[mantonio@guamcourts.org](mailto:mantonio@guamcourts.org)**

/s/ KRISTINA L. BAIRD  
 Administrator of the Courts

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**Operating Budget Revenues, Expenditures, Reserves  
As of November 30, 2022**

Unaudited	Annual Budget Operations	Fund Balance		FY23 ARPA	Total Budget	Allocated Budget	ACTUALS	Variance	
		Equipment/Layon Carry over SWOF	Carryover ARPA						
<b>Revenues:</b>									
Commercial Fees (Large)	9,318,705			0	9,318,705	1,557,373	1,628,836	71,463	4.6%
Others - Government/Commercial Fees	788,267			0	788,267	131,738	111,957	(19,781)	-15.0%
Residential Collection Fees	7,881,596			0	7,881,596	1,317,198	1,360,976	43,778	3.3%
Host Community Fees	327,003			0	327,003	54,650	55,374	723	1.3%
Other Revenues	435,289			0	435,289	72,747	69,474	(3,273)	-4.5%
Interest Income	0			0	0	0	115	115	n/a
Prior Year Revenues	0			0	0	0	21,185	21,185	n/a
<b>Total revenues</b>	<b>18,750,860</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18,750,860</b>	<b>3,133,706</b>	<b>3,247,917</b>	<b>114,210</b>	<b>3.64%</b>
ARPA Budget Allocation	0		9,008,811	3,000,000	12,008,811	667,956	667,956	0	0.00%
Fund Balance		1,479,157			1,479,157	0	0	0	
Transfer In - Recycling Revolving Fund	400,000				400,000	0	0	0	
<b>Total Revenues/Transfers In/ARPA Allocation</b>	<b>19,150,860</b>	<b>1,479,157</b>	<b>9,008,811</b>	<b>3,000,000</b>	<b>32,638,831</b>	<b>3,801,662</b>	<b>3,915,873</b>	<b>114,210</b>	<b>3.00%</b>
<b>Expenditures by Object:</b>									
Salaries and wages	3,484,215			0	3,484,215	400,998	339,716	(61,282)	-15.3%
<b>Contractual services:</b>									
Layon Operator	1,800,000			2,000,000	3,800,000	675,000	667,956	(7,044)	-1.0%
Layon Operations	615,378	66,271	8,811	0	690,460	138,238	138,238	0	0.0%
Harmon Hauler Station Operations	2,400,000			1,000,000	3,400,000	566,667	589,299	22,632	4.0%
Closure & postclosure care	2,000,000			0	2,000,000	333,333	333,333	0	0.0%
Recycling Programs	864,807			0	864,807	191,218	171,925	(19,293)	-10.1%
GEPA Appropriation	202,992			0	202,992	0	0	0	n/a
Contractual Employees	1,100,000			0	1,100,000	367,200	330,189	(37,011)	-10.1%
Vehicle Maintenance	1,146,564			0	1,146,564	191,094	153,741	(37,353)	-19.5%
PUC/Rate Study Consultant/Legal Expense:	213,300	82,886		0	296,186	93,050	93,050	0	0.0%
Others	272,918		1,080,000	0	1,352,918	45,486	37,066	(8,421)	-18.5%
<b>Total contractual services:</b>	<b>10,615,959</b>	<b>149,157</b>	<b>1,088,811</b>	<b>3,000,000</b>	<b>14,853,927</b>	<b>2,601,286</b>	<b>2,514,796</b>	<b>(86,490)</b>	<b>-3.3%</b>
Receiver	60,000			0	60,000	41,000	41,000	0	0.0%
Travel	24,000			0	24,000	0	0	0	n/a
Supplies	584,342			0	584,342	97,390	114,854	17,463	17.9%
Worker's compensation	4,000			0	4,000	0	0	0	n/a
Drug testing	1,000			0	1,000	434	434	0	0.0%
Equipment	15,887			0	15,887	15,242	15,242	0	0.0%
Utilities - power	102,053			0	102,053	17,009	15,798	(1,211)	-7.1%
Utilities - water	18,214			0	18,214	3,036	1,464	(1,572)	-51.8%
Communications	55,700			0	55,700	9,283	9,918	635	6.8%
Capital outlays	380,635	1,330,000	7,920,000	0	9,630,635	63,439	63,439	0	0.0%
Miscellaneous	280,229			0	280,229	46,705	62,080	15,375	32.9%
Reserves - Layon Landfill	200,000			0	200,000	33,333	33,333	0	n/a
Transfers to Host Community Fund	327,003			0	327,003	54,501	55,374	873	1.6%
Transfer out to General Fund (Debt Service), (	2,997,625			0	2,997,625	499,604	507,375	7,771	1.6%
Other Expenditures	4,990,689	1,330,000	7,920,000	0	14,240,688	839,976	879,310	39,335	4.7%
<b>TOTAL EXPENDITURES:</b>	<b>19,150,860</b>	<b>1,479,157</b>	<b>9,008,811</b>	<b>3,000,000</b>	<b>32,638,831</b>	<b>3,883,260</b>	<b>3,774,823</b>	<b>(108,438)</b>	<b>-2.8%</b>
Excess (deficiency) of revenues over (under expenditures)							<b>141,050</b>		

**Note:**

This report is based on preliminary month end numbers and is subject to change based on DOA updates and accounting adjustments.

ARPA Funds revenues are allocated based on when they are expended.

Bad debt expense was based on FY2022 write off approximately 3% of Residential Revenues.

Public Law 36-107 allocated to GEPA \$202,992 to fund duties and responsibilities related to the closure, monitoring and opening of the island's landfill.

P.L. 36-107 allocated \$18,750,860 to fund GSWA's budget.

P.L. 36-115 allocated \$400,000 to from the Recycling Revolving Fund to GSWA to fund the Residential Recycling Program and is a continuing appropriation.



Solid Waste Operations Fund  
 Operating Balance Sheet  
 As of November 30, 2022 and September 30, 2022  
 (Unaudited)

	As of 30-Nov-22	As of 30-Sep-22	Change	% Change
<b>ASSETS</b>				
Cash and cash equivalents, unrestricted	6,805,957	5,991,669	814,289	14%
Cash and cash equivalents, restricted	4,414,730	4,737,594	-322,864	-7%
Receivables, net:				
Tipping Fees	3,253,827	3,316,064	-62,237	-2%
Due from other funds				
Due from component units				
Deposits and other assets				
Total assets	<u>14,474,514</u>	<u>14,045,327</u>	<u>429,186</u>	<u>3%</u>
<b>LIABILITIES AND FUND BALANCES (DEFICIT)</b>				
<b>Liabilities:</b>				
Accounts payable	0	0	0	
Accrued payroll and other	2,201,217	1,719,767	481,450	28%
Due to component units				
Due to other funds	1,957,096	2,135,111	-178,015	-8%
Deferred revenue			0	
Deposits and other liabilities			0	
Total liabilities	<u>4,158,313</u>	<u>3,854,878</u>	<u>303,435</u>	<u>8%</u>
<b>Fund balance (deficit):</b>				
Non-spendable				
Restricted	3,505,728	3,617,798	-112,070	-3%
Committed	0	0	0	
Assigned	6,810,473	6,572,651	237,822	4%
Unassigned	0	0	0	
Total fund balance (deficit)	<u>10,316,201</u>	<u>10,190,449</u>	<u>125,752</u>	<u>1%</u>
Total liabilities and fund balances (deficit)	<u>14,474,514</u>	<u>14,045,327</u>	<u>429,186</u>	<u>3%</u>

Note:

This report is based on preliminary month end numbers and is subject to change based on DOA updates and accounting adjustments.

**GUAM SOLID WASTE AUTHORITY FUNDS**

**FUND BALANCE as of November 30, 2022**

*Unaudited*

	Operational	Ordot	Total
	Fund	Post Closure Fund	
Projected Fund Balance, September 30, 2022, <i>(unaudited)</i>	6,572,651	3,617,798	10,190,449
<i>Revenues/Other Sources:</i>	3,915,873	333,409	4,249,282
<i>Expenditures/Reserves:</i>	3,774,823	445,479	4,220,302
<i>Net Operating Budget</i>	141,050	-112,070	28,980
<i>Add back:</i>			
<i>Capital Outlay - Equipment Replacement reserves</i>			
<i>set asides</i>	63,439	0	63,439
<i>Layon Reserves</i>	33,333	0	33,333
<b>Total Net change in Fund Balance</b>	<b>237,823</b>	<b>-112,070</b>	<b>125,752</b>
Ending Fund Balance, November 30, 2022 <i>(unaudited)</i>	6,810,474	3,505,728	10,316,201

Operating Budget Revenues, Expenditures, Reserves

As of November 30, 2022

Unaudited

	FY2023 Actuals to Date	FY2022 Actuals to Date	Variance	% Increase (Decrease)
<b>Revenues:</b>				
Commercial Fees (Large)	1,628,836	1,603,580	25,256	1.6%
Others - Government/Commercial Fees	111,957	146,783	-34,826	-23.7%
Residential Collection Fees (net 3%)	1,360,976	1,286,746	74,230	5.8%
Host Community Fees	55,374	55,872	-498	-0.9%
Other Revenues	69,474	85,685	-16,211	-18.9%
Interest Income	190	501	-311	-62.1%
Prior Year Revenues	21,185	0	21,185	n/a
<b>Total Revenues</b>	<b>3,247,992</b>	<b>3,179,167</b>	<b>68,825</b>	<b>2.2%</b>
ARPA Budget Allocation	667,956	325,045	342,911	n/a
<b>Total Revenues/Transfers In:</b>	<b>3,915,948</b>	<b>3,504,212</b>	<b>411,736</b>	<b>11.7%</b>
<b>Expenditures by Object:</b>				
Salaries and wages - regular	232,395	219,265	13,130	6.0%
Salaries and wages - overtime	13,699	21,044	-7,345	-34.9%
Salaries and wages - fringe benefits	93,621	91,670	1,951	2.1%
	<u>339,716</u>	<u>331,979</u>	<u>7,737</u>	<u>2.3%</u>
<b>Contractual services:</b>				
Layon Operations	667,956	658,799	9,157	1.4%
Layon Others	138,238	110,284	27,954	25.3%
Harmon Hauler Station Operations	589,299	567,002	22,297	3.9%
Closure & postclosure care (OPCC)	445,479	379,725	65,754	17.3%
Recycling/Other Programs	171,925	162,602	9,323	5.7%
GEPA Appropriation	0	0	0	n/a
Contractual Employees	330,189	209,705	120,484	57.5%
Vehicle Maintenance	153,741	125,079	28,662	22.9%
PUC/Legal Expenses	93,050	110,000	-16,950	-15.4%
Other Contractual	37,066	37,198	-132	-0.4%
<b>Total Contractual</b>	<b>2,626,941</b>	<b>2,360,394</b>	<b>266,550</b>	<b>11.3%</b>
<b>Receiver</b>	<b>41,000</b>	<b>36,000</b>	<b>5,000</b>	<b>13.9%</b>
Travel	0	2,137	-2,137	n/a
Supplies	114,854	74,530	40,324	54.1%
Worker's compensation	0	0	0	n/a
Drug testing	434	43	391	n/a
Equipment	15,242	0	15,242	n/a
Utilities - power	15,798	15,176	622	4.1%
Utilities - water	1,464	2,083	-619	-29.7%
Communications	9,918	9,526	392	4.1%
Capital outlays	0	0	0	n/a
Miscellaneous	62,080	70,281	-8,201	-11.7%
Reserves	0	0	0	n/a
Transfers to Host Community Fund	55,375	55,872	-497	-0.9%
Transfer out to General Fund (Debt Service), Cell 3 Expen	507,375	507,271	104	0.0%
Other Expenditures	782,538	736,921	45,620	6.2%
<b>TOTAL EXPENDITURES:</b>	<b>3,790,196</b>	<b>3,465,293</b>	<b>324,907</b>	<b>9.4%</b>
Excess (deficiency) of revenues over (under expenditures)	125,753	38,919	86,834	223.1%
<b>Other financing sources (uses),</b>				
Transfers in from other funds	0	0	0	
Transfers out to other funds	0	0	0	
Total other financing sources (uses), net	0	0	0	
<b>Net Change in Fund Balance:</b>	<b>125,752</b>	<b>38,919</b>	<b>86,833</b>	<b>223.1%</b>
Beginning Fund Balance, 09-30 (unaudited)	10,190,449	9,987,486	202,963	2.0%
Ending Fund Balance, November (unaudited)	10,316,201	10,026,405	289,796	2.9%

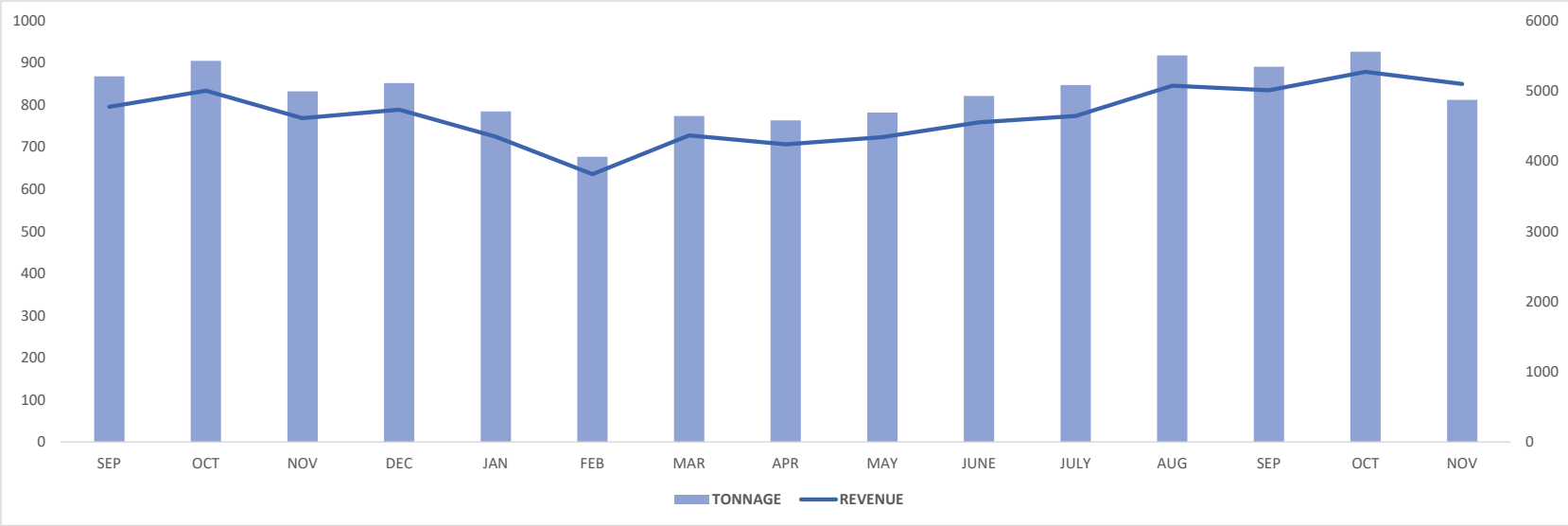
Note:

This report is based on preliminary month end numbers and is subject to accounting adjustments.

**Commercial/Military Revenue & Tonnage  
Period September 2021 - November 2022**

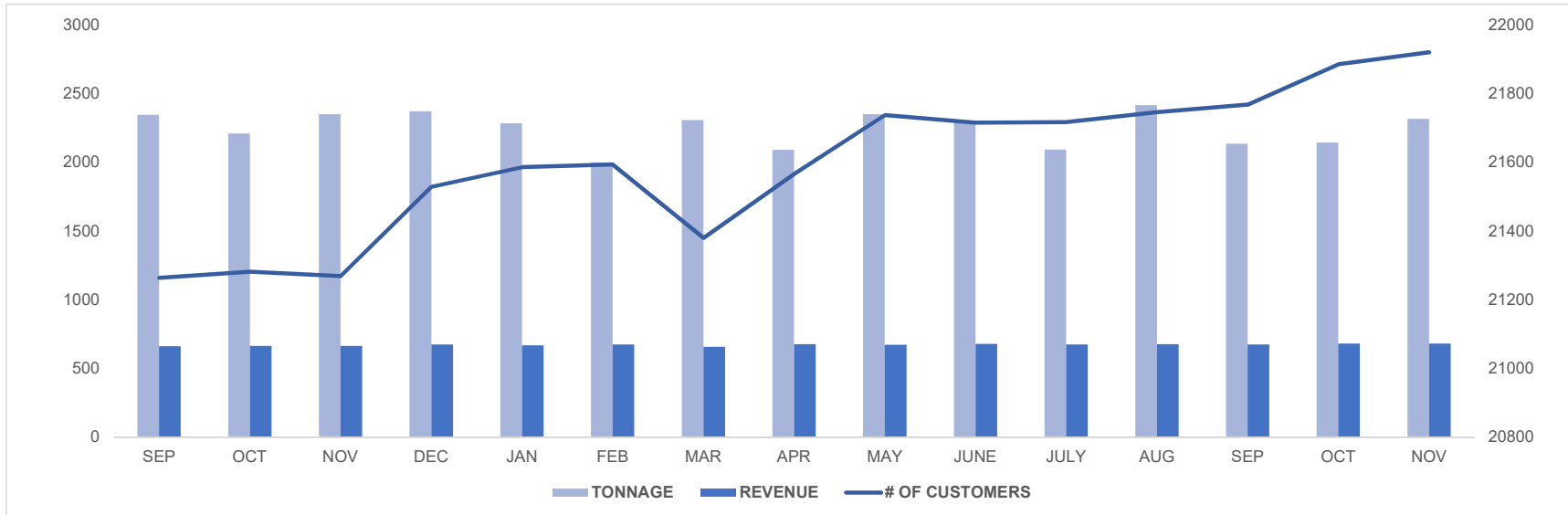
**Fifteen (15) Months**

	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV
TONNAGE	5,210	5,430	4,997	5,113	4,709	4,065	4,646	4,583	4,693	4,930	5,084	5,508	5,347	5,562	4,874
REVENUE	\$ 796	\$ 834	\$ 769	\$ 789	\$ 725	\$ 636	\$ 728	\$ 707	\$ 724	\$ 759	\$ 774	\$ 846	\$ 835	\$ 879	\$ 750



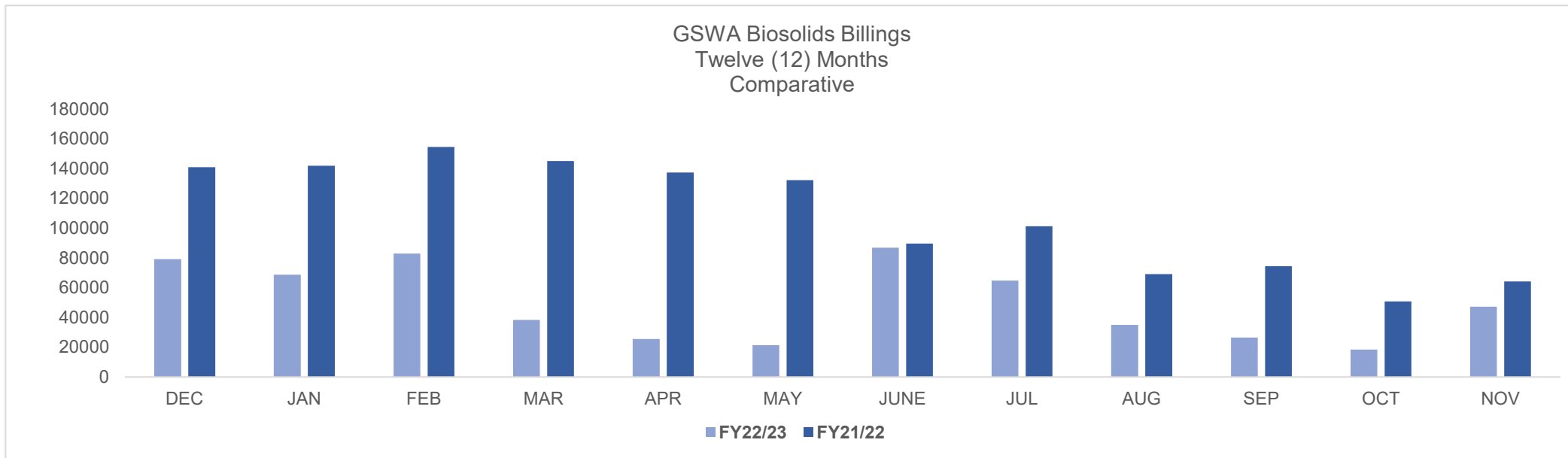
**Residential Revenue & Tonnage**  
**September 2021 - November 2022**  
**Fifteen (15) Months**

	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV
TONNAGE	2,344	2,207	2,347	2,370	2,281	1,998	2,304	2,088	2,347	2,297	2,089	2,414	2,133	2,141	2,314
REVENUE	\$ 661	\$ 663	\$ 663	\$ 674	\$ 668	\$ 674	\$ 657	\$ 676	\$ 673	\$ 678	\$ 674	\$ 677	\$ 675	\$ 681	\$ 680
# OF CUSTOMER	21,264	21,281	21,268	21,528	21,585	21,593	21,380	21,566	21,736	21,714	21,716	21,745	21,767	21,884	21,919



**Guam WaterWorks Authority Biosolids  
Billings Comparative  
Twelve (12) Months Comparative**

	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV
FY22/23	\$ 79,087	\$ 68,668	\$ 82,964	\$ 38,424	\$ 25,468	\$ 21,457	\$ 86,755	\$ 64,783	\$ 35,015	\$ 26,430	\$ 18,316	\$ 47,135
FY21/22	\$ 140,966	\$ 141,856	\$ 154,538	\$ 144,941	\$ 137,254	\$ 132,140	\$ 89,595	\$ 101,208	\$ 69,096	\$ 74,370	\$ 50,803	\$ 64,098



Stockpile of sludge in a temporary drying bed that will likely be disposed during this fiscal year estimated to be around \$340,000.

We are expecting a estimated decrease between 50% to 70% of the Northern District plant for the remainder of the fiscal year.

**KEY INDICATORS**  
**As of November 30, 2022**

Indicators	Target	Sep-22	Oct-22	22-Nov
Days in Cash	90	63.5	60.2	61.11
Collection Ratio				
* Month to Date	98%	91%	98%	107%
* Year to Date	98%	98%	98%	102%
Account Receivable Days	60	65.9	66.72	64.57
Account Payable Days	40 days	32	31	Pending
Residential Customers	21,691	21767	21884	21909
Trucks Procured/Purchased - FY2022	3	0	3	3
Trucks Procured/Purchased - FY2023	10	0	3	3
Plastic	5%	12%	8%	8%
Contamination Rate	25.0%	49%	78%	74%



# GUAM SOLID WASTE AUTHORITY

**LOURDES A. LEON GUERRERO**  
Governor of Guam

**JOSHUA F. TENORIO**  
Lt. Governor of Guam

**IRVIN L. SLIKE**  
General Manager



December 2, 2022

**To:** Director, Department of Administration  
**From:** General Manager, Guam Solid Waste Authority  
**Subject:** Procurement of Electric Refuse Trucks through Federal GSA

Hafa Adai Director Birn,

I am writing to follow up on our discussion at our October 19, 2022 meeting with GSWA and Ms. Brandy Untalan of US GSA at your office.

As mentioned at the meeting, GSWA had finalized its specifications for the seven (7) Electric Refuse Trucks and have submitted the documents to the Attorney General's Office for the Phase I review. GSWA anticipates also conducting an IFB through Federal GSA, however, you mentioned at our meeting that you needed to confer with your procurement office on this matter. Please advise of any outcome of your discussion.

It appears that an inordinate amount of deference has been given to a 14-year-old legal opinion that is not keeping with traditional procurement protocols of competition. You had also stated at our August 24, 2022 virtual meeting that your interpretation of the 2008 OPA ruling did not exclusively rule out Fed GSA participation in Government of Guam procurements. GSWA's auditor also shares the same opinion. Per our auditor, GSWA would just need confirmation from the Governor that the ARPA funding can be used to purchase the needed trucks through Fed GSA and that she confirm that it does not violate any restrictions. I anticipate having this discussion with the Governor on Monday, December 5, 2022.

Please also advise on any considerations on the feasibility of using Fed GSA for the purchase of critical equipment such as the ones I had described to you in my September 7, 2022 letter (enclosed) as nothing has changed from the precarious situation described in that letter. GSWA does expect three new trucks to be delivered sometime in July 2023. This is a welcome outcome, but it only represents 30% of the necessary fleet acquisitions to eliminate the double shifts that have doubled our collection workforce. Seven additional trucks are necessary to restore efficient, safe, and reliable collection services.

If GSWA must still conduct its own IFB, we would invite both local vendors and Fed GSA to participate, and the local procurement preference would still be applied. The IFB will give full disclosure that prices will be compared against Federal GSA procurement prices.





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General Manager



My September 7, 2022 letter also clearly stated that in our last bid award for diesel refuse trucks, because of low competition, a 30% to 40% cost increase was realized. The local bid selected was \$300,000.00 over the initial Fed GSA offer. GSWA has absorbed the additional \$14.00 per customer that this increase would cost the current rate payers. If the same percentage is applied to this upcoming IFB which is estimated to be around \$5M, then I would expect to receive a price that is about \$1.3M higher. This represents a \$63.00 increase for our current 21,000 rate payers. GSWA would more than likely have to accept less vehicles to keep its 2023 expenditures in conformance with the budget. Additionally, today we learned that the Ordot post closure care may require an additional \$1.6M per year immediately in 2023.

Furthermore, the US Government funds that GSWA intends to use to purchase the seven electric refuse trucks have come under scrutiny twice in the past six months. GSWA needs to commit them or potentially lose them. I am stating for the record that if an IFB is issued without including Fed GSA, fewer trucks will be purchased due to a lack of competition as two of Guam's heavy equipment vendors have already advised GSWA that they would not be able to provide the equipment. GSWA would have to pay a significantly higher price in order to make the GSWA fleet whole - perhaps \$1.3M more.

American Samoa and Puerto Rico have allowed the use of the Fed GSA and have not impaired their local economy in doing so.

Circumstances require that I take immediate and decisive action to lessen the impact to GSWA's rate payers. It is with this in mind that I need clarification on the contemplated \$5M purchase of these vehicles. Please do not hesitate to contact me at 671-646-3239 or email me at [irvin.slike@gswa.guam.gov](mailto:irvin.slike@gswa.guam.gov).

Sincerely,

IRVIN L. SLIKE

Cc: Andrew Gayle, Chairman, GSWA Board of Directors  
Sandra Miller, Assistant Attorney General  
Cheerful Catunao, Assoc. Legal Counsel, Office of the Governor  
Senator Sabina Perez, Chairperson, Committee on Environment, Revenue and Taxation,  
Labor, Procurement, and Statistics, Research, and Planning



# GUAM SOLID WASTE AUTHORITY

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Governor of Guam

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Lt. Governor of Guam

**IRVIN L. SLIKE**  
General Manager



September 7, 2022

To: Edward Birn, Chairman, Procurement Policy Office  
Senator Sabina Flores Perez, Chairperson, Committee on Environment, Revenue and Taxation, Labor, Procurement, and Statistics, Research, and Planning

From: General Manager, Guam Solid Waste Authority

Subject: GSWA Refuse Truck Purchases

GSWA senior staff and Board Chairman met with the Governor on January 18, 2022 to discuss the purchase of necessary fleet replacements. The benefits of electric service vehicles were discussed and it was the Governor's distinct direction that Federal GSA should be involved with this major purchase. Both cost and speed of procurement were noted as beneficial to replace the aged fleet.

The Governor's legal Counsel had provided GSWA with contact information for Ms. Brandy Untalan who is the POC and Customer Service Director with the Federal Acquisition Service. I met with Ms. Untalan and began preparation of truck specifications. However, it was advised by GSWA's legal counsel that the local GSA office was the only entity that could purchase through Federal GSA. After discussions with local GSA, it was advised that they could not conduct the procurement for GSWA due to the delegated procurement authority and recommended that GSWA conduct its own invitation for bid (IFB) that would allow for Federal GSA contracts to be considered if offered. Therefore, a parallel procurement was conducted.

Federal GSA received a bid offer on March 22, 2022. This bid offer was within GSWA's budget for three diesel trucks to be delivered by April 2023. A local vendor who had registered for GSWA's IFB demanded more time and an extension was given. The Federal GSA proponent also had to be extended and the price and delivery date subsequently changed.

The local vendor finally produced a bid offer in June 2022 that was \$400,000 over budget and would be delivered by August 2023. The extended Federal GSA proposal was still within GSWA's budget (only 100 K increase) and delivery would also be in August 2023. Because the local bid offer was over budget, the bid was rejected and cancelled. Additionally, GSWA had sought further guidance regarding the authority to purchase through Federal GSA in its letter to the Committee on Procurement dated June 23, 2022 which also copied the Procurement Policy Office and Attorney General's Office. However, legal counsel had advised that even with the authority to purchase through Federal GSA, there would also be other issues that would need to be addressed based off of OPA's 2008 decision. Therefore, the Federal GSA bid was also cancelled.

With local GSA being the only entity that can purchase through Federal GSA unless otherwise specified in federally funded purchases, the Governor was clearly mistaken about Guam's ability to utilize the Federal GSA procurement programs.



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General Manager

The latest estimate for heavy equipment delivery is 720 days from notice of award. This puts realistic delivery of refuse vehicles somewhere in mid-2025. This estimate was given in an email from Federal GSA on June 21, 2022 and on a phone conversation with Green Group Holdings, GSWA's contractor for Landfill Operations.

As it stands right now, the GSWA's fleet is one truck shy of being at 40% capacity. In solid waste collection, this is the mathematical rule of thumb that is the turning point. In other words, there are not enough hours in the day, nor days in the week that all the waste can be collected. Refuse will have to be triaged and delays of several days or upwards of a week will occur. I have included links to illustrate what labor shortages, increased waste, truck shortages have caused their respective communities. These headlines are most likely in Guam's future.

<https://www.bloomberg.com/news/articles/2020-09-29/for-cities-2020-really-is-a-garbage-year>

<https://www.npr.org/sections/coronavirus-live-updates/2022/01/14/1073210778/garbage-and-recyclables-pile-up-as-omicron-takes-its-toll-on-sanitation-workers>

<https://www.marketplace.org/2022/01/13/garbage-collection-slows-in-many-cities-as-covid-19-hampers-staffing/>

GSWA is currently using double shifts to handle the Monday and Tuesday routes. This may also be expanded to Wednesdays by month's end. The labor shortage has exacerbated the shortage of trucks situation, and may not support continuation of double shifts for the next two years. The award of the temporary services contract will essentially offer some relief to this problem. Without it, our collection capabilities would have been degraded into the 20% level, and customers would have definitely experienced significant delays.

I have read the email traffic pre 2008, which describes DPW's problems with truck maintenance and fleet replacement (only one working refuse truck on Island), and the Court Case of 2009 through 2011 of the truck purchase protest, and I find myself wondering why the same problem has reoccurred three times in 14 years.

The link below discusses how fleet managers across the country are dealing with long delivery times. GSWA has implemented all of these suggestions save one. We have tried to rent some rear loading refuse trucks on Guam and the company would not allow it.

<https://www.government-fleet.com/10156898/how-long-vehicle-delivery-times-affect-government-fleets>

I have looked at used fleets in the Philippines, Australia and Texas. Both the Philippines and Australia offer late model (2005 to 2010) Isuzu manual transmission trucks that are significantly smaller than the 25 CY capacity that is Guam's fleet. Only a few of our drivers have experience in manual transmission trucks. The other issue with purchase of these trucks is parts and maintenance. The Isuzu dealer on Guam has experience in maintaining the N series truck (class 4-5) and we would require the F series (class 7).

The Texas dealer offers reconditioned refuse trucks. These, if reconditioned properly, could offer the size, durability and driver features that could help bridge the two-year gap for new equipment. I am awaiting a free quote on a 2012 reconditioned class 7 truck with 300,000 miles on it. I would purchase



# GUAM SOLID WASTE AUTHORITY



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General Manager

three class 7 diesels, similar to the March bid spec. The models offered (Mack, Freightliner, Navistar, Peterbilt, Sterling) can all be serviced on Guam.

Another bridge solution would be to take some of the “dead” vehicles stored at Layon with competent chassis and convert them to electric vehicles. A Company in Great Britain performs this work, but the vehicle must be shipped there and shipped back. The procedure itself does not take long. I asked if they could send a service team to Guam this past December 2021 and work on our vehicles, but they declined. The cost quoted at that time was approximately \$250,000 USD per vehicle plus shipping costs. The non-powertrain components (ie electrical harness, brake lines, tires, etc ) would need upgrading as well.

[https://www.refusevehiclesolutions.co.uk/Refuse\\_Vehicle\\_Solution\\_delivers\\_the\\_First\\_Electric\\_Conversion\\_Vehicle\\_for\\_Paper\\_Round--post--153.html](https://www.refusevehiclesolutions.co.uk/Refuse_Vehicle_Solution_delivers_the_First_Electric_Conversion_Vehicle_for_Paper_Round--post--153.html)

At this point I would strongly recommend that the procurement of new vehicles be initiated as soon as possible. This is in Guam’s long term interest. Cooperative buying organizations would offer the lowest cost option for the same truck purchased locally and this is in the best interest for GSWA’s rate payers.

I would further recommend purchase and shipping of competent used Class 7 vehicles from any available source. This will provide at least some relief both operationally and politically when collection service degrades.

Sincerely,

IRVIN L. SLIKE

cc: Andrew Gayle, Chairman, GSWA Board of Directors  
Sandra Miller, Assistant Attorney General, Solicitor Division



# GUAM SOLID WASTE AUTHORITY

LOURDES A. LEON GUERRERO  
Governor of Guam

JOSHUA F. TENORIO  
Lt. Governor of Guam

IRVIN L. SLIKE  
General Manager



October 24, 2022

**VIA HAND DELIVERY**

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

**COPY**  
Rec'd 10/24/22  
[Signature]

Rec'd 10/24/2022  
[Signature] SPA/GWA  
BETHAM

**RE:            Ordot Dump Sewer Rate Classification Evaluation**

*Dear Mr. Bordallo,*

Per our email conversations on April 6, 2022 regarding the leachate frequency testing and strength, you had recommended that a proper engineering study be conducted to support a rate reduction for both landfills. GSWA has contracted EA Engineering, Science, and Technology Inc. to conduct this recommended study for the Ordot Dump which I have attached to this letter. This study includes the strength of the leachate as well as the recommended classification in GWA's current rate structure.

The report concludes that the strength of the leachate should place Ordot's current and future rate classification as Commercial 1. Please review this report and advise if GWA concurs with its conclusions. The impact of Guam's financial commitment to Ordot's Post Closure Trust Fund, based upon current volumes, could be as much as \$15M over the next 26 years.

Further to the subject is the accuracy of the GWA meter at the Ordot facility. The Receiver has documentation that meter readings have been upwards of 30% false positive in displayed volumes. This information is critical in establishing the proper set aside for Ordot's court ordered trust fund. Any consideration beyond the six months established in 28 GAR section 2109(b) as noted in 2109(c) would be appreciated.

RECEIVED  
12:00P 10/24/22 OTG  
OFFICE OF THE ATTORNEY GENERAL  
ADMINISTRATION

Georgiana  
Rodrigues

ORDOT CENTRAL TRUST FUND  
OCT 24 '22 12:03



# GUAM SOLID WASTE AUTHORITY

**LOURDES A. LEON GUERRERO**  
Governor of Guam

**JOSHUA F. TENORIO**  
Lt. Governor of Guam

**IRVIN L. SLIKE**  
General Manager



If you need further information on this matter, please do not hesitate to contact me at 671-646-3239 or [irvin.slike@gswa.guam.gov](mailto:irvin.slike@gswa.guam.gov).

*Sincerely,*

A handwritten signature in black ink, appearing to read "Irvin L. Slike".

**IRVIN L. SLIKE**  
GSWA General Manager

Attachment

cc    Shannon Taitano, Chief Deputy Attorney General  
      Andrew Gayle, GSWA Board Chairman  
      Chris Lund, Receiver Representative, GBB Inc.  
      Walter Leon Guerrero, Guam EPA  
      Cheerful Cutano, Assoc. Legal Counsel, Office of the Governor

# SEWER RATE CLASSIFICATION EVALUATION

## ORDOT CLOSURE FACILITY ORDOT, GUAM

Prepared for:

Government of Guam  
Guam Solid Waste Authority



*Prepared by:*



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**October 2022**

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**LIST OF ACRONYMS AND ABBREVIATIONS**

$\mu\text{S}/\text{cm}$	microSiemen(s) per centimeter
BOD	biochemical oxygen demand
COD	chemical oxygen demand
GWA	Guam Waterworks Authority
mg/L	milligrams per liter
Q1 2022	first quarter of 2022
TDS	total dissolved solids
TOC	total organic carbon
TSS	total suspended solids
WWTP	Waste Water Treatment Plant

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## **1. INTRODUCTION**

This report has been prepared to present a review and evaluation of the leachate from Ordot Closure Facility (the Landfill) and the current sewer rate classification of the Guam Waterworks Authority (GWA) for discharging this leachate from the Landfill into the sewer system. The evaluation was performed by EA Engineering, Science, and Technology, Inc., PBC and includes an evaluation and comparison of relevant constituents of the landfill leachate with three types of commercial users' wastewater constituents per the GWA sewer rate classification.

The following information is included and presented within this report:

- Brief background and historical information of the leachate system and monitoring at the Landfill
- Recent Landfill leachate quality data
- Commercial wastewater characteristics
- Comparison of the Landfill recent historical leachate data with commercial wastewater data.

## 2. BACKGROUND

The Ordot Facility is a closed landfill. The closure construction was completed on 1 March 2016. The closure system is designed to collect and control the previously uncontrolled discharges of leachate to the surrounding environment. As of 19 October 2015, the leachate storage tanks began receiving the collected leachate from the closure system.

A system of perimeter pipes and trenches with an on-slope geo-composite drainage layer was installed to collect leachate from the slopes and perimeter of the waste pile and deliver it by gravity to three leachate storage tanks located to the south of the cover system. The three 16,000-gallon leachate tanks are contained within a concrete secondary containment structure. The leachate from the storage tanks is sent to the GWA wastewater system via an onsite force main, through the GWA flow meter located just outside the landfill, and discharges into a manhole of the nearest GWA gravity line in the Central GWA Collection System along Dero Drive. This line drains to the GWA pump station on Dero Drive and from there leachate is pumped to the next GWA gravity line, where it eventually reaches the Hagatna Waste Water Treatment Plant (WWTP), where it is treated. The operational peak instantaneous flow rate of the leachate is approximately 80 gallons per minute (gpm). A flow meter is installed to provide records of the total flow rate of leachate discharging into the GWA collection system.

For the leachate discharge and treatment, the Landfill has been charged as a Commercial 3 facility at a rate of \$27.42 per 1,000 gallons of leachate.

### 3. HISTORICAL LEACHATE QUALITY DATA

Leachate is currently discharged to the GWA Central Wastewater System and is conveyed to the Hagatna WWTP from the Landfill. The constituents to be monitored in the leachate as specified by GWA include iron, aluminum, other metals, dissolved salts, volatile and semivolatile organic compounds, as well as 5-day biochemical oxygen demand (BOD), ammonia, and total suspended solids (TSS).

The average, minimum, and maximum results for the quarterly leachate samples collected from 2019 through the first quarter of 2022 (Q1 2022) are presented in Table 1. Leachate composition varies as a function of the amount of precipitation, quantity, age, and type of wastes disposed historically.

The data presented in Table 1 include available and relevant constituents that were utilized for the comparison with the commercial users' wastewater constituents. These parameters include alkalinity, BOD, chemical oxygen demand (COD), chloride, organic nitrogen, specific conductance, sulfate, total dissolved solids (TDS), total organic carbon (TOC), and TSS.

The ranges of commercial users' wastewater constituents were compared with the most recent three years of the Landfill's leachate data.

The landfill leachate is considered to be relatively old because the facility is over 10 years old and was capped/closed in 2016. Compared to recently placed waste, older in place and capped waste contributes to the degradation of organics, which leads to increased concentrations of BOD, COD, and TOC, specific conductance, inorganic salts, and TDS. The age of the landfill has a substantial impact on the quality of leachate, as the age of the landfill increases, the effect on the pollution potential of the leachate decreases. For this reason, only the leachate data from Q2 2019 through Q1 2022 were considered as relevant and included in the analysis.

**Table 1. Ordot Leachate Data from 2019 Quarter 2 – 2022 Quarter 1**

Parameters	Units	Historical Minimum (2019 Q2-2022 Q1)	Historical Maximum (2019 Q2-2022 Q1)	Historical Average (2019 Q2-2022 Q1)
Alkalinity as CaCO <sub>3</sub>	mg/L	160	500	406
Ammonia Nitrogen	mg/L	0.021	17	11.5
BOD	mg/L	4.3	22.4	10.1
COD	mg/L	11	29	20
Chloride	mg/L	41	76	50
Organic Nitrogen	mg/L	0	13.0	4.5
Specific Conductance	µS/cm	753	1,220	907
Sulfate	mg/L	0.93	6.6	2.5
TDS	mg/L	400	540	474
TOC	mg/L	4.8	9.9	6.7
TSS	mg/L	ND	190	38

µS/cm = microSiemen(s) per centimeter  
 BOD = biochemical oxygen demand  
 CaCO<sub>3</sub> = as calcium carbonate  
 COD = chemical oxygen demand  
 mg/L = milligram(s) per liter  
 ND = nondetectable  
 Q1 = quarter 1  
 TDS = total dissolved solids  
 TOC = total organic carbon  
 TSS = total suspended solids



#### 4. GWA RATE STRUCTURE

The GWA imposed rates per 1,000 gallons for different types of commercial users' wastewater discharge are provided in Table 2. For the leachate discharge and treatment, the Landfill has been charged as a Commercial 3 facility. One of the purposes of this TM is to determine if the wastewater rate should be updated based on the quality of the historical leachate data.

**Table 2 Water Rates Imposed by Guam Waterworks Authority**

Facilities	Rate (\$)
Commercial 1 (per 1000 gallons)	8.11
Commercial 2 (per 1000 gallons)	19.77
Commercial 3 (per 1000 gallons)	27.42
Sewer rates effective from 1 October 2020, per the GWA website as of 5 October 2022 ( <a href="http://guamwaterworks.org/rates/">http://guamwaterworks.org/rates/</a> ).	

## 5. COMMERCIAL WASTEWATER CHARACTERISTICS

To evaluate which commercial user type the constituents of the Landfill leachate currently most closely resemble using the industries listed by GWA for commercial discharge, the wastewater categories of Commercial Facilities 1, 2, and 3 wastewater were considered in the review. The facility types and wastewater characteristics are discussed further in the following sections.

### Commercial 1:

The facilities under the Commercial 1 category considered in the evaluation included bars without dining facilities, car wash, department and retail stores, hospital and convalescent, laundromat, professional offices, schools and colleges, and markets without garbage disposal. Typical ranges of the wastewater constituents from these facilities were researched and are presented in Table 3.

**Table 3 Constituent Ranges in Commercial 1 Facilities**

Parameters	Units	Minimum	Maximum
Alkalinity as CaCO <sub>3</sub> <sup>1</sup>	mg/L	nondetectable	300
Ammonia Nitrogen <sup>4</sup>	mg/L	10	68
BOD <sup>2,3</sup>	mg/L	110	720
COD <sup>1,4</sup>	mg/L	89	2,480
Chloride <sup>2</sup>	mg/L	30	400
Organic Nitrogen <sup>2</sup>	mg/L	8	25
Specific Conductance <sup>4</sup>	µS/cm	300	1,000
Sulfate <sup>2</sup>	mg/L	20	50
TDS <sup>2,4</sup>	mg/L	120	860
TOC <sup>2</sup>	mg/L	31	260
TSS <sup>2,3</sup>	mg/L	120	1,960

µS/cm = microSiemen(s) per centimeter

BOD = biochemical oxygen demand

CaCO<sub>3</sub> = as calcium carbonate

COD = chemical oxygen demand

mg/L = milligram(s) per liter

TDS = total dissolved solids

TOC = total organic carbon

TSS = total suspended solids

References:

1. Nor Haslina Hashim and Nadzirah Zayadi. 2016. *Pollutants Characterization of Car Wash Wastewater*. MATEC Web of Conferences.
2. Metcalf & Eddy. 2003. *Wastewater Engineering Treatment and Reuse*. Fourth Edition, Tata Mc-Graw Hill.
3. Connecticut Department of Environmental Protection, Bureau of Water Management, Land Disposal Section. *CT DEP Files, Project Files*. 79 Elm Street, Hartford, CT.
4. Verlicchi, P; M. Al Aukidy; and E. Zambello. 2015. *What have we learned from worldwide experiences on the management and treatment of hospital effluent? — An overview and a discussion on perspectives*. *Science of the Total Environment*, Pages 467-491. 1 May.

**Commercial 2:**

The facilities under Commercial 2 category considered in the evaluation included hotels and commercial and industrial laundries. Typical ranges of the wastewater constituents from these facilities were researched and are presented in Table 4.

**Table 4 Constituent Ranges in Commercial 2 Facilities**

Parameters	Units	Minimum	Maximum
Alkalinity as CaCO <sub>3</sub> <sup>1</sup>	mg/L	61	398
Ammonia Nitrogen <sup>2</sup>	mg/L	12	45
BOD <sup>2</sup>	mg/L	110	726
COD <sup>1</sup>	mg/L	65	1,405
Chloride <sup>1,2</sup>	mg/L	30	185
Organic Nitrogen <sup>2</sup>	mg/L	8	25
Specific Conductivity	µS/cm	-	-
Sulfate <sup>2</sup>	mg/L	20	50
TDS <sup>1</sup>	mg/L	104	2,064
TOC <sup>2</sup>	mg/L	80	260
TSS <sup>1,2</sup>	mg/L	15	1,200

- = no data available

µS/cm = microSiemen(s) per centimeter

BOD = biochemical oxygen demand

CaCO<sub>3</sub> = as calcium carbonate

COD = chemical oxygen demand

mg/L = milligram(s) per liter

TDS = total dissolved solids

TOC = total organic carbon

TSS = total suspended solids

References:

1. U.S. Environmental Protection Agency. 1973. *Treatment of Laundromat Wastes*. Office of Research and Monitoring, Washington, D.C., EPA-R2-73-108. February.
2. Metcalf & Eddy. 2003. *Wastewater Engineering Treatment and Reuse*, Fourth Edition. Tata Mc-Graw Hill.

**Commercial 3:**

The facilities under Commercial 3 category considered in the evaluation included bakeries and wholesale and markets with garbage disposal. Typical ranges of the wastewater constituents from these facilities were researched and are presented in Table 5.

**Table 5 Constituent Ranges in Commercial 3 Facilities**

Parameters	Units	Minimum	Maximum
Alkalinity as CaCO <sub>3</sub>	mg/L	-	-
Ammonia Nitrogen	mg/L	-	-
BOD <sup>1,2</sup>	mg/L	155	3,200
COD <sup>1</sup>	mg/L	155	7,000
Chloride	mg/L	-	-
Organic Nitrogen <sup>1</sup>	mg/L	36	100
Specific Conductivity	µS/cm	-	-
Sulfate	mg/L	-	-
TDS	mg/L	-	-
TOC	mg/L	-	-
TSS <sup>1</sup>	mg/L	120	6,000

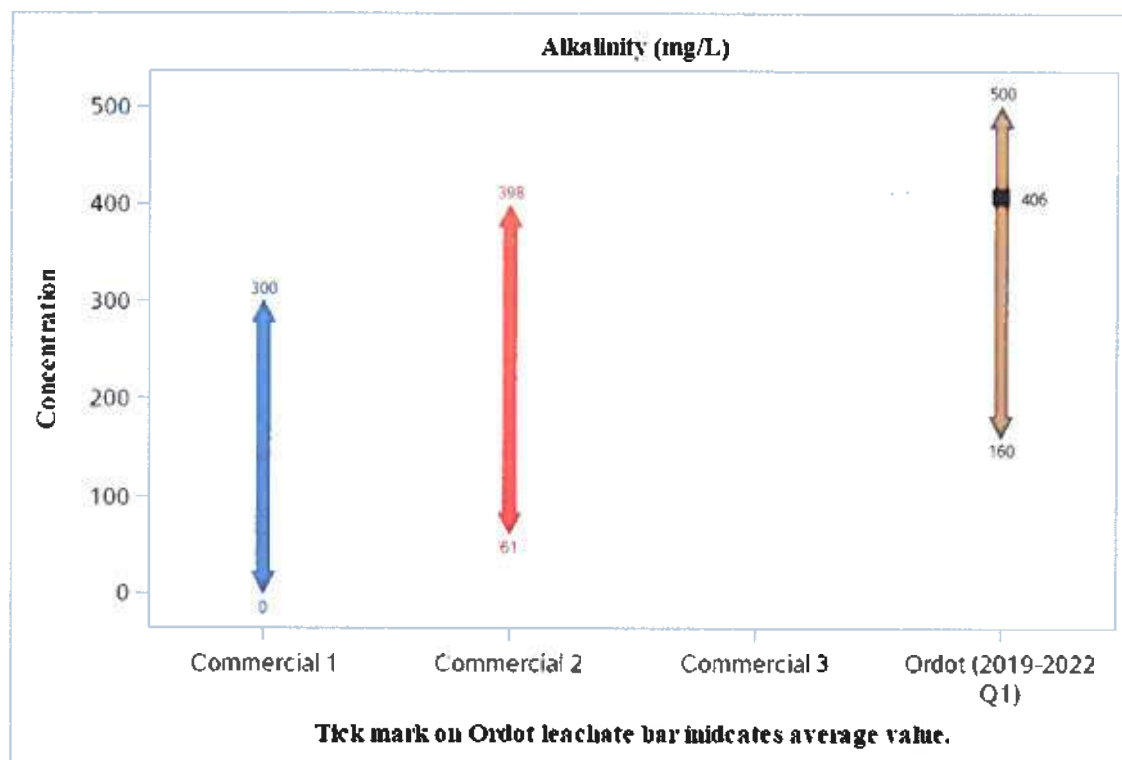
- = no data available  
µS/cm = microSiemen(s) per centimeter  
BOD = biochemical oxygen demand  
CaCO<sub>3</sub> = as calcium carbonate  
COD = chemical oxygen demand  
mg/L = milligram(s) per liter  
TDS = total dissolved solids  
TOC = total organic carbon  
TSS = total suspended solids  
References:  
1. Ecologix Environmental Systems. 2022. *Commercial/Industrial Bakery Wastewater Treatment*.  
2. Chen, J. Paul; Lei Yang; and Renbi Bai, Yung-Tse Hung. 2006. *Bakery Waste Treatment*. Taylor & Francis Group, LLC.

## 6. COMPARISON OF HISTORICAL LEACHATE DATA WITH COMMERCIAL USERS' WASTEWATER DATA

The following section presents the comparison of the ranges of constituent concentrations in the Landfill leachate (Table 1) with the ranges of the three commercial facility types (Tables 3, 4, and 5).

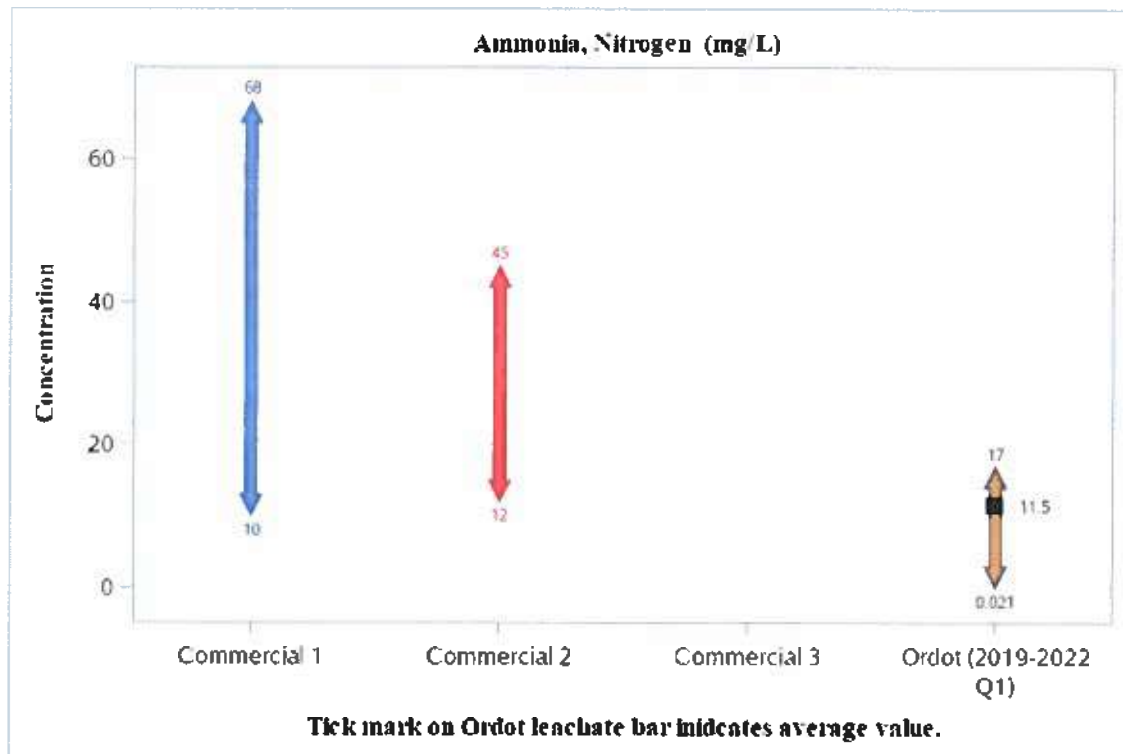
### 6.1 Alkalinity

Typical concentrations of alkalinity for Commercial 1 facilities range from 0 to 300 milligrams per liter (mg/L) and Commercial 2 facilities range from 61 to 398 mg/L. No range is available for Commercial 3 facilities. As presented on the following comparison plot, the range of the Landfill leachate alkalinity is slightly higher than both the commercial facilities, which can be attributed to the age of the landfill.



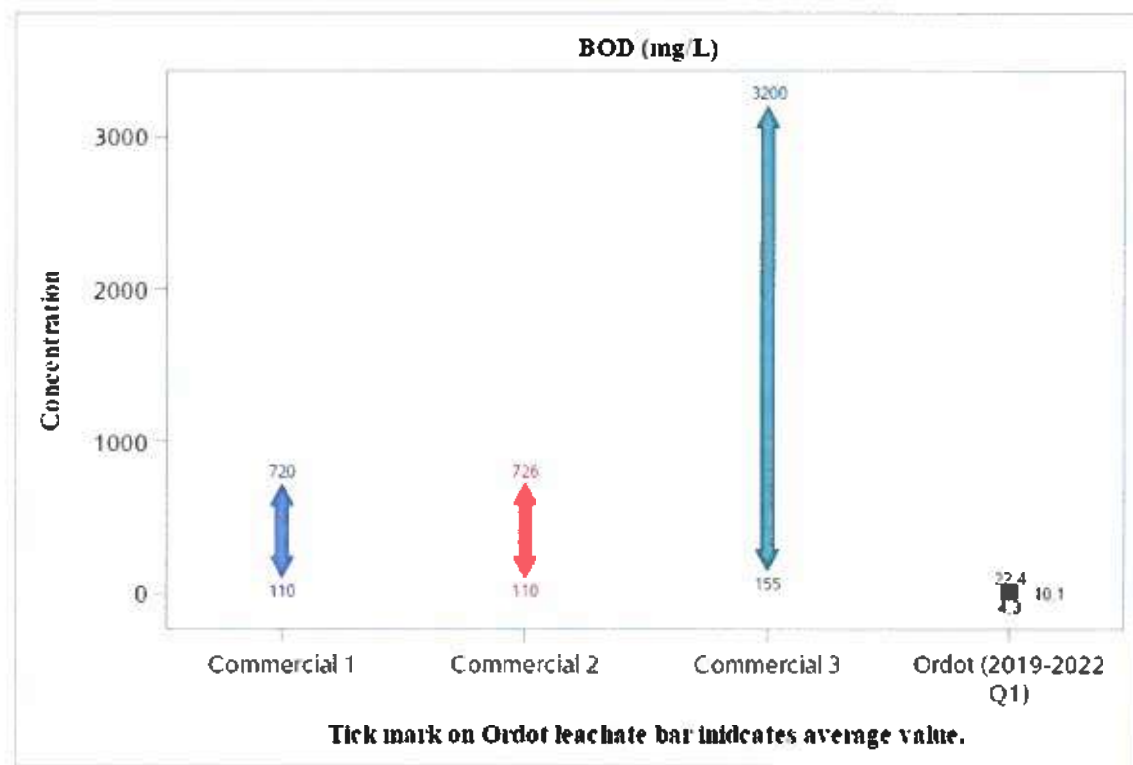
## 6.2 Ammonia

Typical concentrations of ammonia for Commercial 1 facilities range from 10 to 68 mg/L and Commercial 2 facilities range from 12 to 45 mg/L. No range is available for Commercial 3 facilities. As presented on the following comparison plot, ammonia in the landfill leachate ranges from 0.021 to 17 mg/L, which is significantly below the ammonia observed in the three identified commercial facility types.



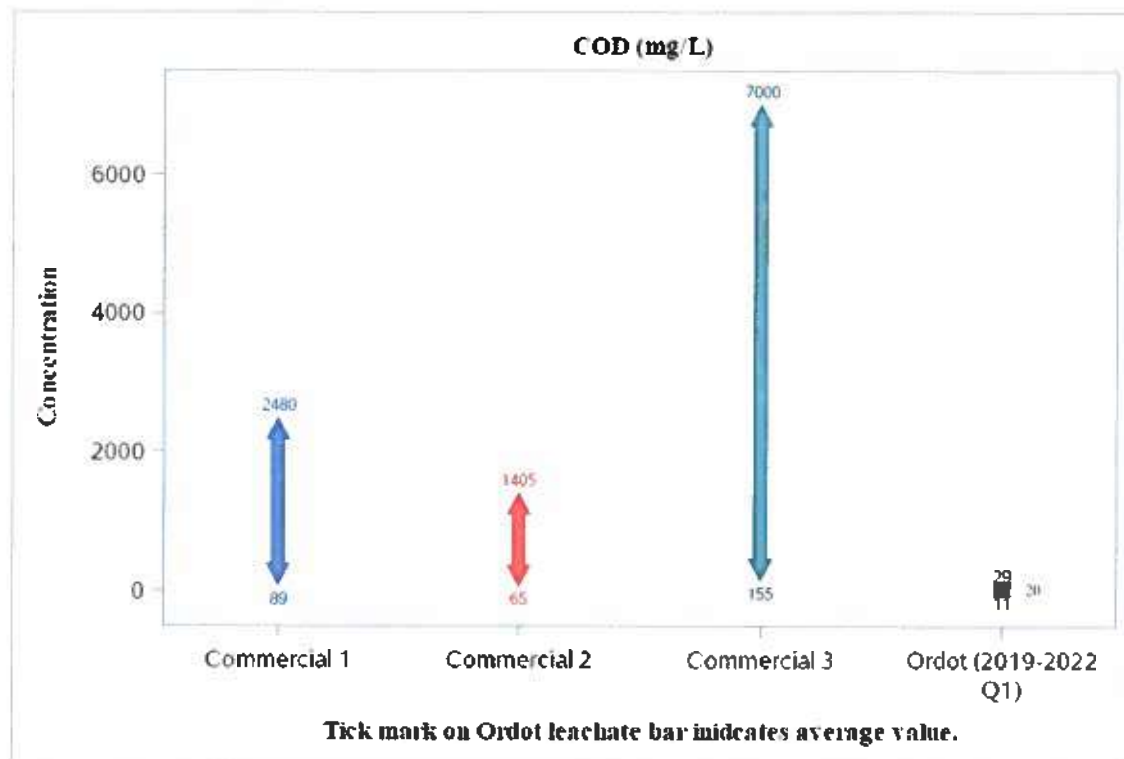
### 6.3 BOD

Typical concentrations of BOD for Commercial 1 facilities range from 110 to 720 mg/L, Commercial 2 facilities from 110 to 726 mg/L, and Commercial 3 facilities from 155 to 3,200 mg/L. As presented on the comparison plot, BOD in the landfill leachate ranges from 4.3 to 22.4 mg/L, which is significantly below the BOD observed in the three identified commercial facility types.



## 6.4 COD

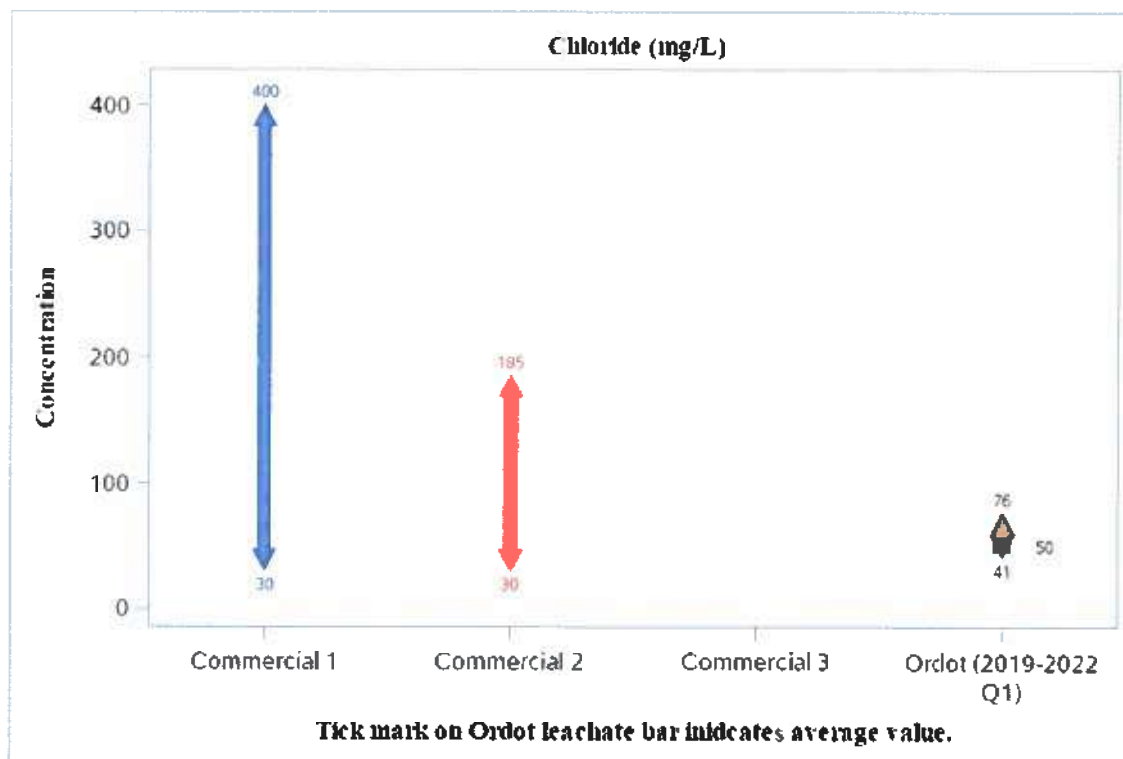
Typical concentrations of COD for Commercial 1 facilities range from 89 to 2,480 mg/L, Commercial 2 facilities from 65 to 1,405 mg/L, and Commercial 3 facilities from 155 to 7,000 mg/L. As presented on the comparison plot, COD in the landfill leachate ranges from 11 to 29 mg/L, which is significantly below the COD observed across the three different commercial facility types.





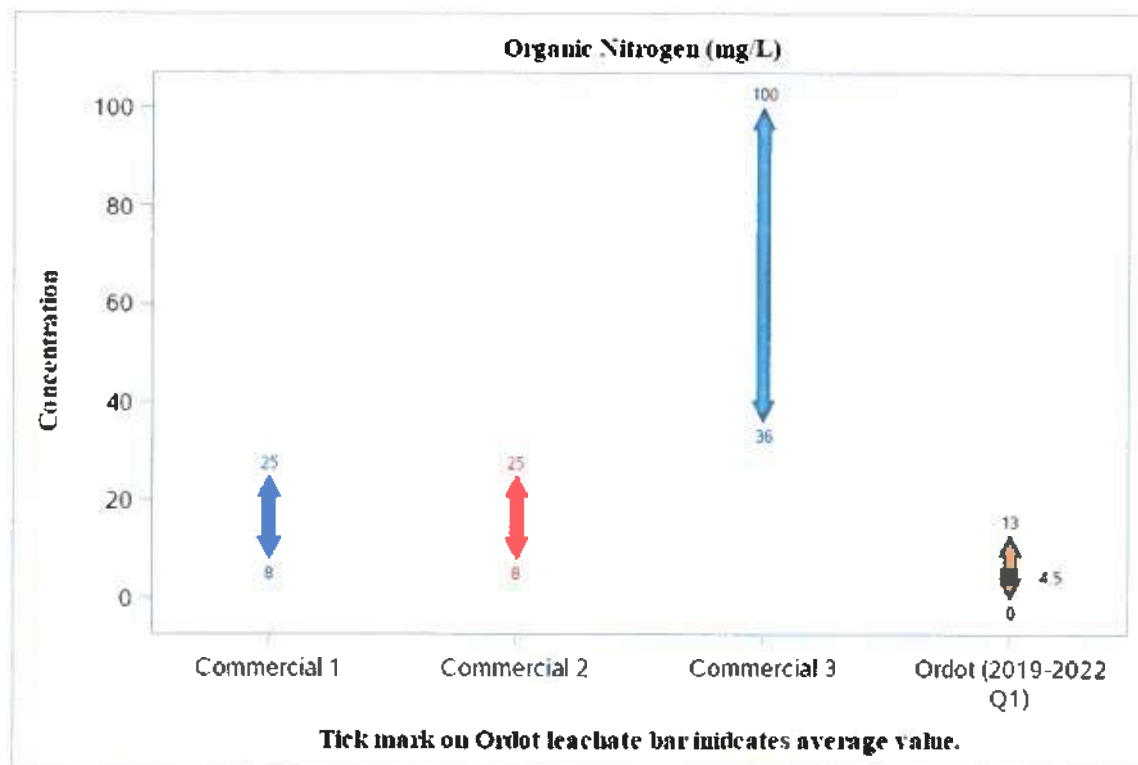
## 6.5 Chloride

- Typical concentrations of chloride for Commercial 1 facilities range from 30 to 400 mg/L and Commercial 2 facilities from 30 to 185 mg/L. No range is available for Commercial 3 facilities. As presented on the comparison plot, the landfill leachate chloride concentrations range from 41 to 76 mg/L, which falls within the lower range of the chloride observed in Commercial 1 or 2 facilities.



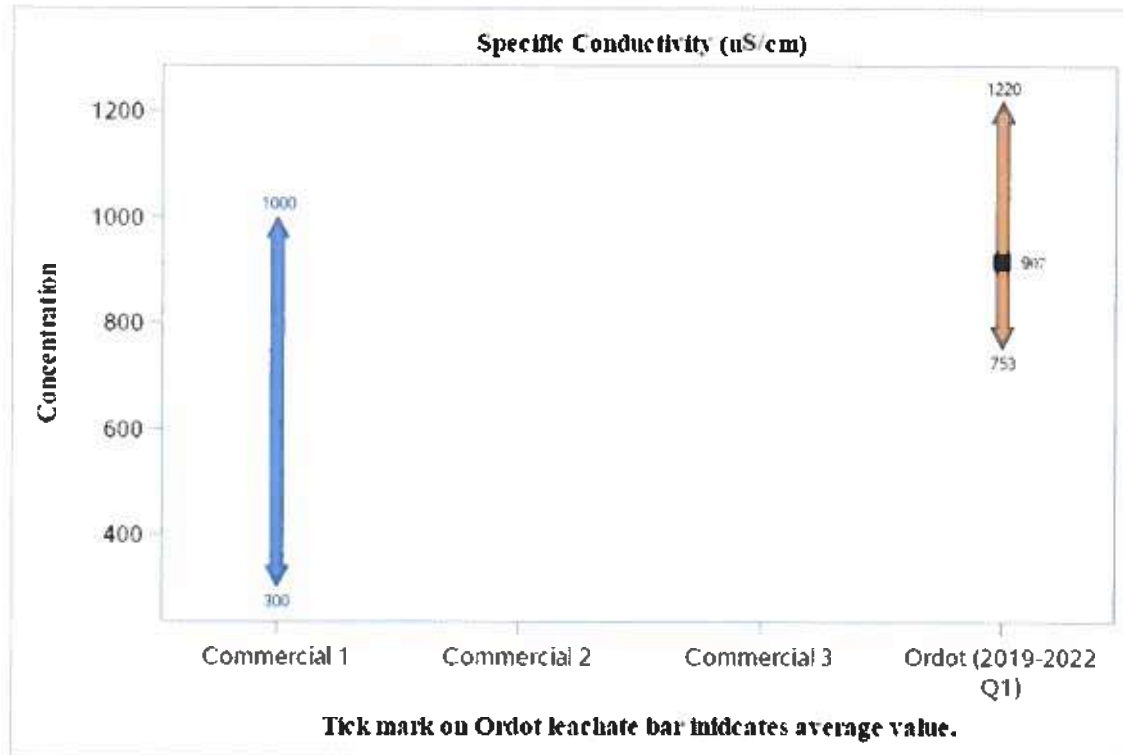
## 6.6 Organic Nitrogen

Typical concentrations of organic nitrogen for Commercial 1 and 2 facilities range from 8 to 25 mg/L and Commercial 3 facilities 36 to 100 mg/L. As presented in the comparison plot, organic nitrogen in the landfill leachate ranges from 0 to 13 mg/L which aligns more with the Commercial 1 or 2 facility types for organic nitrogen ranges.



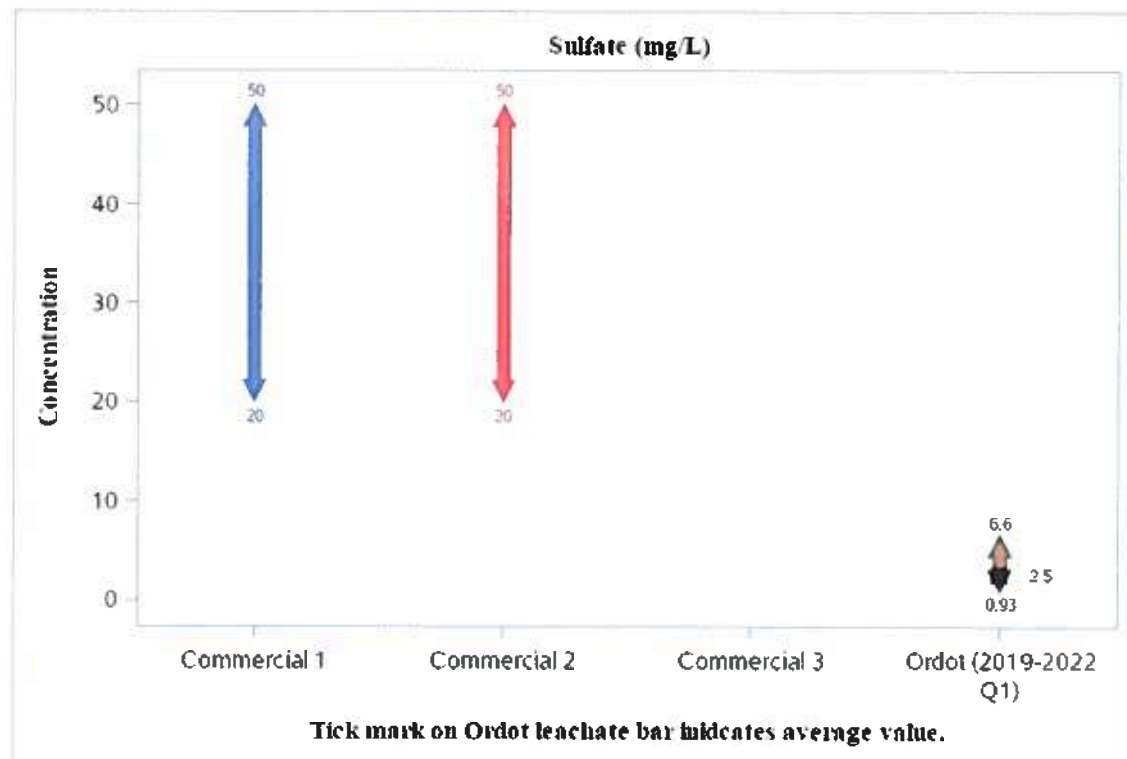
## 6.7 Specific Conductance

Typical concentrations of specific conductance were only available for the Commercial 1 facilities, which ranged from 300 to 1,000 microSiemens per centimeter ( $\mu\text{S}/\text{cm}$ ). Based on the presented comparison plot, specific conductance in the landfill leachate ranges slightly higher from 753 to 1,220  $\mu\text{S}/\text{cm}$ .



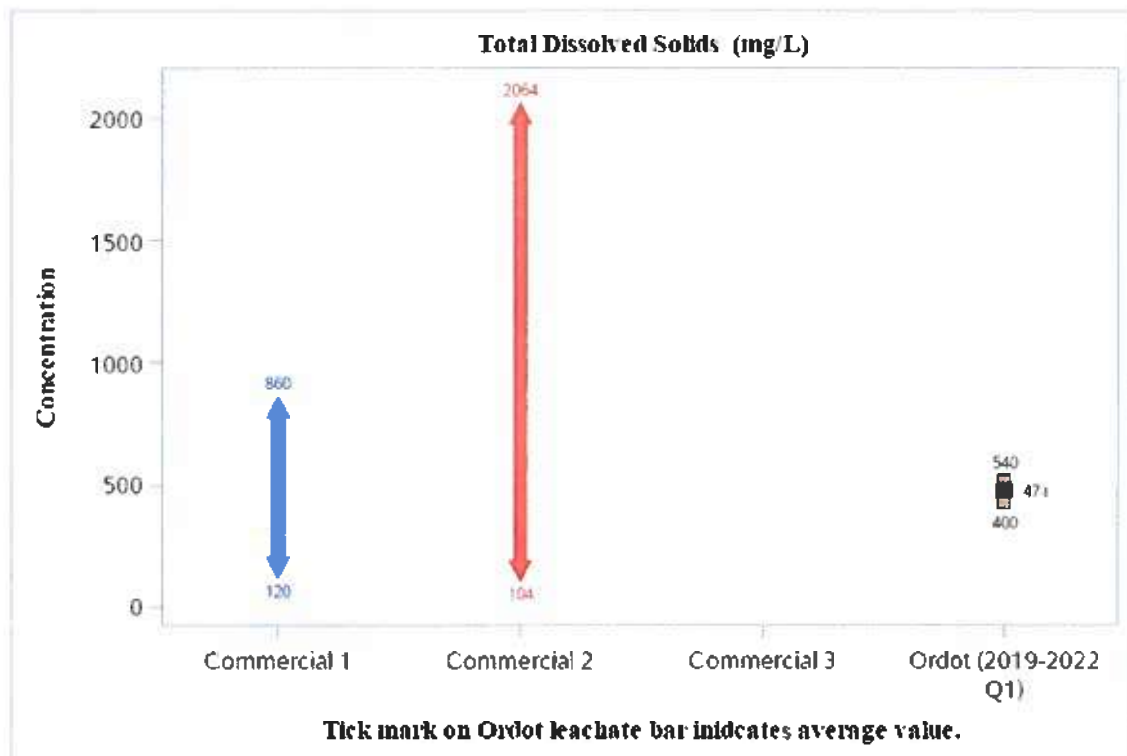
## 6.8 Sulfate

Typical concentrations of sulfate for Commercial 1 and 2 facilities range from 20 to 50 mg/L. No range is available for Commercial 3 facilities. As presented on the comparison plot, sulfate in the landfill leachate ranges from 0.93 to 6.6 mg/L which is lower than the ranges of both the commercial facility types presented.



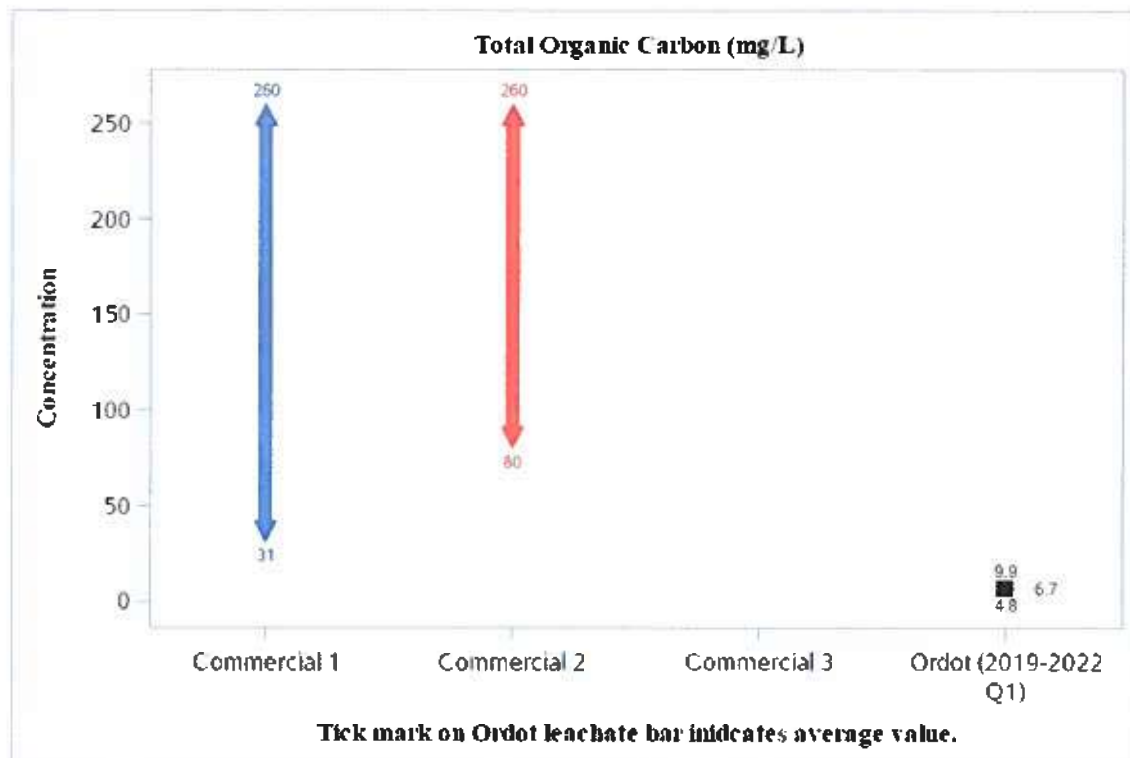
## 6.9 TDS

Typical concentrations of TDS for Commercial 1 facilities range from 120 to 860 mg/L and Commercial 2 facilities from 104 to 2,064 mg/L. No range is available for Commercial 3 facilities. Based on the presented comparison plot, TDS in the landfill leachate ranges from 400 to 540 mg/L which aligns more with the Commercial 1 TDS range.



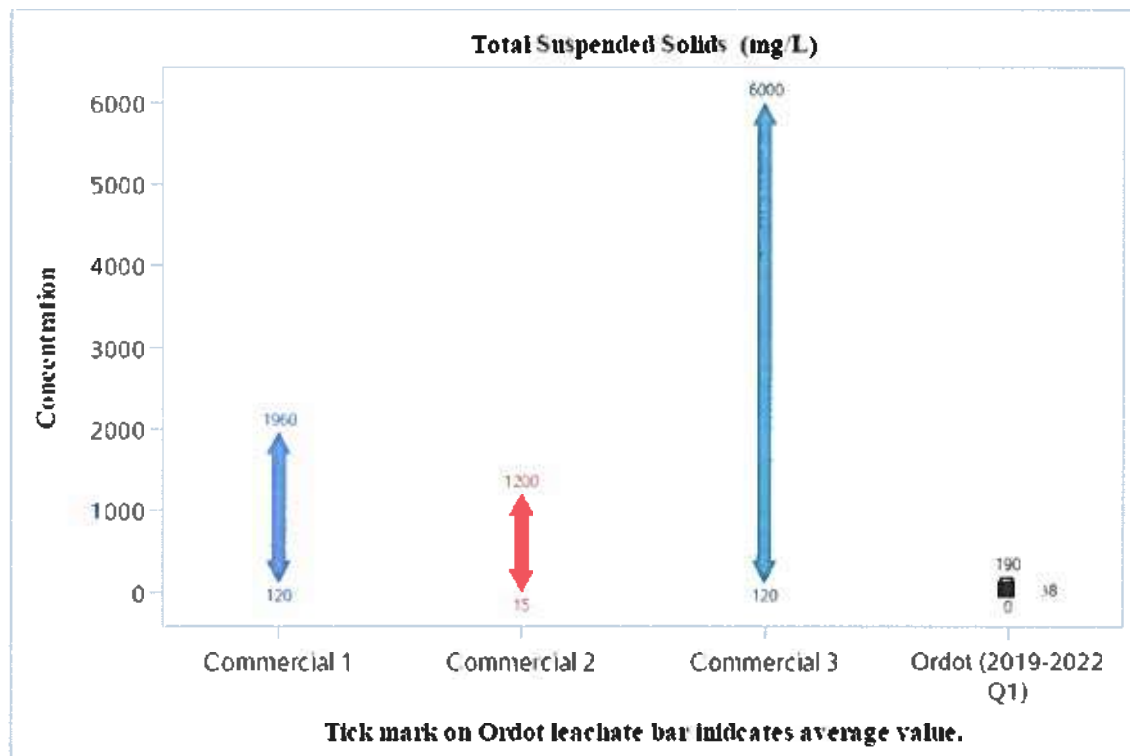
### 6.10 Total Organic Carbon:

Typical concentrations of TOC for Commercial 1 facilities range from 31 to 260 mg/L and Commercial 2 facilities from 80 to 260 mg/L. No range is available for Commercial 3 facilities. Based on the presented comparison plot, TOC in the landfill leachate ranges from 4.8 to 9.9 mg/L, which is below both of the commercial facility types presented.



## 6.11 TSS

Typical concentrations of TSS for Commercial 1 facilities range from 120 to 1,960 mg/L, Commercial 2 facilities from 15 to 1,200 mg/L, and Commercial 3 facilities from 120 to 6,000 mg/L. Based on the presented comparison plot, TSS in the landfill leachate ranges from 0 to 190 mg/L which is lower than the three commercial facility types.



## **7. SUMMARY**

In summary, the leachate that is currently discharged to the GWA Central Wastewater System and is conveyed to the Hagatna WWTP from the Ordote Facility most closely aligns with the Commercial 1 facility type data. This assessment is based on the plots of the GWA specified constituents that are required to be monitored in the leachate versus the available reference data ranges of Commercial 1, 2 and 3 type facilities. A majority of these compared constituents align with the Commercial 1 facility type data.



## 8. REFERENCES

- Chen, J. Paul; Lei Yang; and Renbi Bai, Yung-Tse Hung. 2006. *Bakery Waste Treatment*. Taylor & Francis Group, LLC.
- Connecticut Department of Environmental Protection, Bureau of Water Management, Land Disposal Section. *CT DEP Files, Project Files*. 79 Elm Street, Hartford, CT.
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