



UTILITY ADVISORY BOARD AGENDA

March 14, 2024 at 5:15 PM

Water Utility Shop 2520 Barrett Ave./Zoom Webinar

<https://juneau.zoom.us/j/83013202186> or 1-253-215-8782 Meeting ID: 830 1320 2186

A. CALL TO ORDER

B. LAND ACKNOWLEDGEMENT

We would like to acknowledge that the City and Borough of Juneau is on Tlingit land, and wish to honor the indigenous people of this land. For more than ten thousand years, Alaska Native people have been and continue to be integral to the well-being of our community. We are grateful to be in this place, a part of this community, and to honor the culture, traditions, and resilience of the Tlingit people. Gunalchéesh!

C. ROLL CALL

D. APPROVAL OF AGENDA

E. APPROVAL OF MINUTES

1. May 11, 2023, Draft UAB Meeting Minutes

F. AGENDA TOPICS

2. Letter of Support for Electric Boiler at the Mendenhall Wastewater Treatment Plant (MWWTP)
3. Cruise Ship Wastewater and Water Charging Overview
4. Mendenhall Wastewater Treatment Plant (MWWTP) Permit Modification
5. Lead Service Line Inventory (LSLI) Update
6. FY25 CIP Resolution - Areawide Street Sales Tax Funds for Utility Projects
7. Valley Water Supply During FY25 AEL&P Penstock Construction Update

G. PUBLIC PARTICIPATION ON NON-AGENDA ITEMS

H. NEXT MEETING DATE

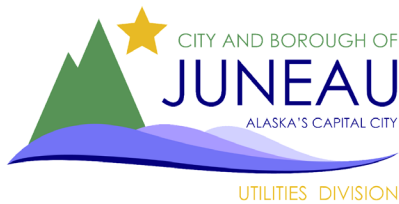
8. April 11, 2024 at 5:15PM

I. SUPPLEMENTAL MATERIALS

9. Utilities Superintendent Presentation

J. ADJOURNMENT

ADA accommodations available upon request: Please contact the Clerk's office 36 hours prior to any meeting so arrangements can be made for closed captioning or sign language interpreter services depending on the meeting format. The Clerk's office telephone number is 586-5278, TDD 586-5351, e-mail: city.clerk@juneau.gov.



ENGINEERING & PUBLIC WORKS DEPARTMENT

Utilities Division

2009 Radcliffe Road, Juneau, AK 99801

p: 907.586.0393 | f: 907.789.1681

UTILITIES ADVISORY BOARD MINUTES (DRAFT)

*Thursday, May 11th | 17:15pm
2520 Barrett Ave. & Teleconference – Zoom*

I. CALL TO ORDER

- a. *The meeting was called to order at 5:20pm by Board Chair Andrew Campbell*
- b. *Members Present: Andrew Campbell, Elizabeth Pederson (teleconference), Geoff Larson, Grant Ritter, Janet Schempf (teleconference), Stuart Cohen*
- c. *Staff Present: Alan Steffert (teleconference), Brian McGuire, Denise Koch (teleconference), Joshua Midgett, Laura Williams*

II. APPROVAL OF AGENDA

- a. *May 11, 2023 agenda was unanimously approved by the Board*

III. APPROVAL OF MINUTES

- a. *April 13, 2023 minutes were unanimously approved by the Board with the following change:*
 - i. *Geoff spoke to item b. i. 5. And requested the following change: realization of unfunded depreciation*

IV. INFORMATION ITEMS

- a. *2023 UAB Annual Report Draft*
 - i. *Janet was thanked by those in attendance for her work on the Report thus far and mentioned that there is the ability to add a paragraph beneath the 2022-2023 UAB ACTIVITY regarding current infrastructure concerns.*
 - 1. *Andrew acknowledged that this would be useful but didn't have specific language to offer and spoke to it being suited to a Rate Increase conversation*
 - ii. *Janet noted the need to correct minor typos and grammatical errors, which will not impact the message of the report.*
 - iii. *Brian spoke to the need to 'soften' the Marine Passenger Fee language, changing 'secured' to 'sought'*
 - 1. *Geoff asked about additional uses of these Fees in the past, to which Brian responded that in may have been pre Dashboard documentation. Grant also offered additional uses for these fees for which there is no specific wording*
 - 2. *It was decided to generalize this section and add a sentence stating that Marine Passenger Fees have been used in the past to fun various Water and Wastewater Utility Projects.*
 - iv. *The Report was approved by the Board noting that Janet and Joshua would work together to correct minor errors.*
- b. *Board Member Renewal & Recruitment*
 - i. *Brian noted that Keri Williamson needs to complete their application for review. Andrew offered that they would be a positive addition to the Board.*

- ii. Janet and Grant confirmed their reapplications and Joshua offered to provide Stuart with the link to do so.
- c. Rate Tool Check In
 - i. Stuart questioned if rate increases added in the individual tabs of the sheet would affect an entire Utility bill or just the tab name (Water or Wastewater).
 - ii. Geoff asked for an update on the 10-year CIP plan, which Brian acknowledged he was working on with Alan and it would be ready to share in the coming meeting.
- d. Billing Example Collection
 - i. Brian noted that staff has secured about 7-10 Utility Bills for peer review and has requested UAB members to do the same in order to acquire an adequately sized pool for peer review
 - 1. Brian spoke specifically to comparing with Sitka, who's current billing is just below CBJ's with significant anticipated increases in the coming years
 - 2. Any copies of these bills should be sent to Ty and Joshua who will redact any sensitive information before sharing
 - 3. Andrew offered that he could easily secure Hoonah's
 - 4. Stuart questioned whether staff was looking for bottom line or breakouts, which Brian replied that staff is looking for 'all of it', as it will all be useful in the coming rate discussion
 - 5. Discussion about the sustainability of rate increase, which Laura replied with examples from Colorado where monthly costs exceeded those of CBJ
 - 6. Grant spoke to a concern about union negotiations City wide and the impact these continual raises will have on the rate payer
 - a. He also spoke to the Budget book at large and the impacts that other projects have as the trickle down to the UAB and/or the Utility
 - b. Andrew acknowledged that the question should be 'what are we going to fund with the rates?' This could help answer the scope of any potential increase
 - c. Stuart questioned the role of the UAB in determining the necessity of CIPs, to which Andrew and Geoff pointed to the Report, which states the UAB's purpose and its role in advising staff and offering recommendations
 - 7. Geoff asked the question if we have to be an Enterprise Fund and what value there might be in exploring the Utility becoming more integrated into the political decision making process
 - a. Andrew offered that the UAB simply needs to develop the value proposition and express it to the Assembly, who will make the political calculus from there
 - 8. Stuart spoke to Cruise Lines being a possible source of additional revenue as their current charges don't necessarily equate to the cost of an annual user
 - a. Brian noted that use does increase as a byproduct of Cruise Ships, but that Juneau Douglas has only rarely needed to bring an additional basin online
 - b. Laura brought up the possibility of reaching out to other Municipalities that may accommodate Cruise Ship water and wastewater services for comparison.
 - i. It was noted that currently, Juneau is the only location in Alaska that provides this service
 - 9. Geoff offered that the current rate model has no 'peak cost' lever nor any 'distance' lever to accommodate for these demands on the system.

V. PUBLIC PARTICIPATION & NON AGENDA ITEMS

- a. Brian introduced Laura Williams, CBJ's new Field Operations Supervisor for the Water and Wastewater Division
- b. Stuart spoke to the desire to re-initiate a conversation with Chad regarding FOG removal and the possibility of discussing solutions for this process
 - i. Denise noted that it is currently being discussed positively at the legislative level for Congressional directed spending
 - ii. Various options for pursuing FOG removal in the community were discussed
- c. Joshua noted that CBJ took second place at the AWWMA State Water Tasting Competition, placing just behind the Northern Utilities.

VI. ADJOURNMENT

- a. The meeting adjourned at 6:18pm
- b. Next meeting:

HRC Assembly Meeting (Report Presentation) | July 10th, 2023 | 18:00 | Assembly Chambers

Andrew may be able to make it, but Geoff offered to go if reminded

UAB Meeting | June 8th, 2023 | 17:15 | In Person & Teleconference

Staff will reach out to ensure there will be quorum as multiple people offered they may be absent.



UAB Meeting

Brian McGuire

3/14/2024



Agenda

- UAB Meeting

- | | | | |
|----|---|----------|----------------|
| 1. | Letter of Support for Electric Boiler at Mendenhall | (5 min) | (Ashley/Brian) |
| 2. | Cruise Ship Utility Services Overview | (10 min) | (Brian) |
| 3. | Mendenhall WWTP Permit Modifications | (5 min) | (Brian/Chad) |
| 4. | Lead Service LSLI Update | (10 min) | (Chad) |
| 5. | FY25 CIP Resolution | (5 min) | (Brian) |
| 6. | Valley Water Supply Plan during SC Penstock work | (20 min) | (Chad) |



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Electric Boiler Grant

DATE: March 14, 2024

TO: Chair Campbell and Utility Advisory Board

FROM: Brian McGuire, Utilities Superintendent

SUBJECT: Grant Letter of Support for Electric Boiler at the Mendenhall Wastewater Treatment Plant (MWWTP)

The City and Borough of Juneau is applying for the Climate Pollution Reduction Grant (CPRG) from the Environmental Protection Agency (EPA). If awarded, the funding would be used to upgrade existing infrastructure at the Mendenhall Wastewater Treatment Plant (MWWTP) to replace diesel boilers with electric, significantly reducing Greenhouse Gas Emissions (GHG).

CBJ is requesting that the UAB consider drafting a Letter of Support for this project.

Recommendation:

Option 1: Discuss and draft a Letter of Support for the Climate Pollution Reduction (CPRG) Grant application for the MWWTP Electric Boiler.

OR

Option 2: Make a motion granting a UAB member authority to work with Brian McGuire to draft a Letter of Support for CBJ to send to the EPA in support of the CPRG grant application.



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Cruise Ship Revenue

- Wastewater
 - Cruise Ships sign Contracts each year
 - Not all Cruise Ships participate
 - Cruiseships pay based upon volume and strength
 - Composite samples are pulled during offload.

5. BILLING PROCEDURE

At the end of each calendar month, Cruise Line Agencies of Alaska, on behalf of the Cruise Line, shall prepare (or is responsible to arrange to have prepared) a monthly billing summary that contains the following information for each discharged event:

- 1) Date of the discharge
- 2) Name of the vessel
- 3) Volume of discharge (in gallons)
- 4) BOD concentration (in mg/L)
- 5) Total BOD discharged (in pounds)
- 6) TSS concentration (in mg/L)
- 7) Total TSS discharged (in pounds)
- 8) Charge rate per 1000 gallons (in dollars)
- 9) Total CBJ charge for the discharge event based on the tariff charges in this agreement
- 10) Laboratory results for BOD and TSS



Cruise Ship Revenue

- Wastewater – Actual Ship WW analysis



641 W. Willoughby Ave., Suite 301 Juneau, AK 99801
(907) 463 - 4415
www.admiraltyenvironmental.com

Graywater Offload

Carnival Cruise Lines

Franklin Dock

Carnival Miracle

September 15, 2023

Analytical Report

Admiralty Environmental EPA ID AK 00976

AE 33270

Sample Location	Graywater Offload Composite
BOD (mg/L)	520
TSS (mg/L)	136



Cruise Ship Revenue

- Wastewater (cont)
 - Base rate (\$/1000 gal) is Commercial metered rate

From 7/1/22 to 6/30/23

Concentration (mg/L)	Tariff (\$ per 1000 gallons)
BOD < 300 and TSS < 350	\$13.56
BOD < 600 and TSS < 700	\$27.12
BOD < 900 and TSS < 1050	\$40.68
BOD < 1200 and TSS < 1450	\$54.24
BOD < 1500 and TSS < 1750	\$67.80
BOD < 1800 and TSS < 2100	\$81.36
BOD < 2100 and TSS < 2450	\$94.92
BOD < 2400 and TSS < 2800	\$108.48
BOD < 2700 and TSS < 3150	\$122.04
BOD < 3000 and TSS < 3500	\$135.60
BOD < 3300 and TSS < 3850	\$149.16
BOD < 3600 and TSS < 4200	\$162.72
BOD < 3900 and TSS < 4550	\$176.28
BOD < 4200 and TSS < 4900	\$189.84

From 7/1/23 to 6/30/24

Concentration (mg/L)	Tariff (\$ per 1000 gallons)
BOD < 300 and TSS < 350	\$13.83
BOD < 600 and TSS < 700	\$27.65
BOD < 900 and TSS < 1050	\$41.48
BOD < 1200 and TSS < 1450	\$55.31
BOD < 1500 and TSS < 1750	\$69.13
BOD < 1800 and TSS < 2100	\$82.96
BOD < 2100 and TSS < 2450	\$96.79
BOD < 2400 and TSS < 2800	\$110.62
BOD < 2700 and TSS < 3150	\$124.44
BOD < 3000 and TSS < 3500	\$138.27
BOD < 3300 and TSS < 3850	\$152.10
BOD < 3600 and TSS < 4200	\$165.92
BOD < 3900 and TSS < 4550	\$179.75
BOD < 4200 and TSS < 4900	\$193.58



Cruise Ship Revenue

- Wastewater (cont)

2023 ALL SHIPS CHRONOLOGICAL DISCHARGE SUMMARY										
	Date	Receipt No.	Vessel	Volume (gallons)	BOD conc. (mg/l)	BOD (lbs.)	TSS conc. (mg/l)	TSS (lbs.)	Charge Rate per 1000 gal.	Total CBJ Charge
163	9/11/23	23168FKL	Royal Princess	79,593	490	325	103	68	\$27.66	\$2,201.54
164	9/12/23	23169FKL	Grand Princess	85,653	1,000	714	560	400	\$55.32	\$4,738.32
165	9/13/23	23171CT	Nieuw Amsterdam	33,000	760	209	192	53	\$41.49	\$1,369.17
166	9/13/23	23170FKL	Majestic Princess	179,096	540	807	88	131	\$27.66	\$4,953.80
167	9/13/23	23172AS	Discovery Princess	167,775	760	1,063	145	203	\$41.49	\$6,960.98
168	9/14/23	23173CT	Noordam	69,000	570	328	172	99	\$27.66	\$1,908.54
169	9/15/2023	23174FKL	Carnival Miracle	61,392	520	266	136	70	\$27.66	\$1,698.10
170	9/17/23	23176FKL	Sapphire Princess	173,681	530	768	102	148	\$41.49	\$7,206.02
171	9/17/23	23177CT	Ruby Princess	45,925	870	333	356	136	\$41.49	\$1,905.43
172	9/17/2023	23175CT	SS Explorer	23,275	760	148	174	34	\$41.49	\$965.68
173	9/19/23	23178FKL	Majestic Princess	247,318	720	1,485	186	384	\$41.49	\$10,261.22
174	9/20/23	23179FKL	Grand Princess	48,903	1,000	408	522	213	\$55.32	\$2,705.31
175	9/20/23	23180AS	Discovery Princess	160,200	630	842	106	142	\$41.49	\$6,646.70
176	9/21/23	23181CT	Nieuw Amsterdam	41,900	690	241	187	65	\$41.49	\$1,738.43
177	9/22/23	23182FKL	Sapphire Princess	115,897	480	464	131	127	\$27.66	\$3,205.71
178	9/27/23	23184AS	Discovery Princess	136,775	550	627	117	133	\$27.66	\$3,783.20
			AVERAGE	96,301	674	542	189	138	\$37.69	\$3,611.83
			TOTAL	17,141,514		96,484		24,486		\$646,137.77



Cruise Ship Revenue

- Drinking Water
 - Docks and Harbors re-sells water to the ships.
 - Cruise Ships pay either a flat rate or a metered rate.
 - Not all Cruise Ships participate.
 - Cruise Ships pay either a flat rate or a metered rate.

Our 2022 water fees for the large cruise ships -

Jan 1 2022 – June 30th, 2022 \$5.30 per 1,000 gal

July 1 2022 – Dec 31, 2022 \$5.40 per 1000 gal

The smaller ships are not metered and paid a flat fee –

Jan 1 2022 – June 30th, 2022 \$27.00

July 1 2022 - Dec 31, 2022 \$28.00

Amount collected for water in 2022 from all ships - \$93,051.82

Our 2023 water fees for the large cruise ships –

Jan 1 2023 – June 30th, 2023 \$5.40 per \$1,000

July 1 2023 – Dec 31, 2023 \$5.50 per \$1,000

The smaller ships flat fee

Jan 1 2023 – June 30th, 2023 \$28.00

July 1 2023 – Dec 31, 2023 \$28.56

Amount collected for water in 2023 for all ships \$125,648.78



Cruise Ship Revenue

- CBJ Utility Revenue Summary

Area	<u>2022</u>	<u>2023</u>
Water -D&H	\$ 93,051	\$ 125,648
Water -Util	\$ 62,614	\$ 86,427
WW	\$ 439,555	\$ 646,838
Utility total	\$ 502,168	\$ 733,265



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Lead Service Line Inv



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Revised Lead and Copper Rule

Lead and Copper Rule Revisions Service Line Inventory Guidance

On August 4, 2022, EPA released *Guidance for Developing and Maintaining a Service Line Inventory* to support water systems with their efforts to develop inventories and to provide states with needed information for oversight and reporting to EPA. The guidance provides essential information to help water systems comply with the Lead and Copper Rule Revisions requirement to prepare and maintain an inventory of service line materials by October 16, 2024. Specifically, EPA's Lead Service Line Inventory guidance:



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