



UTILITY ADVISORY BOARD AGENDA

February 13, 2025 at 5:15 PM

Water Utility Shop 2520 Barrett Ave./Zoom Webinar

<https://juneau.zoom.us/j/83013202186> or 1-253-215-8782 Webinar 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. January 9, 2025 - Regular Meeting

F. PUBLIC PARTICIPATION ON NON-AGENDA ITEMS

G. AGENDA TOPICS

2. Letter of Support - Congressionally Directed Spending for MWWTP

3. Potential Utility Bond Revenue

4. Utility Update

5. Discussion: Industrial User Rates

H. NEXT MEETING

6. March 13, 2025 at 5:15 PM

7. Proposed Agenda Items

I. SUPPLEMENTAL MATERIALS

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.

UTILITY ADVISORY BOARD MINUTES - DRAFT

January 09, 2025 at 5:15 PM



Water Utility Shop 2520 Barrett Ave./Zoom Webinar

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

A. CALL TO ORDER

The meeting was called to order at 5:14 PM on Thursday, January 9, 2025.

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

UAB Members Present: Chair Campbell, Mr. Ritter, Ms. Pederson, Mr. Larson, Mr. Cohen, Ms. Schempf (ZOOM).

CBJ Staff Present: Brian McGuire, Utilities Superintendent; Chad Gubala, Utilities Production & Treatment Manager, Alan Steffert, EPW Engineer (ZOOM); Nathan Bodensadt, Utilities Administrative Coordinator.

D. APPROVAL OF AGENDA

The meeting agenda was approved without comment.

Note: During the approval of minutes, the UAB determined that the Agenda item "November 11, 2024 - Special Session" should have read "November 21, 2024 - Special Session."

E. APPROVAL OF MINUTES

1. September 12, 2024 - Regular Meeting

Approved without comment.

2. November 11, 2024 - Special Session

Mr Larson and Mr Cohen clarified that Mr. Cohen was assigned to meet with Christine Woll, not Mr. Larson. This was adjusted and the minutes were approved.

F. PUBLIC PARTICIPATION ON NON-AGENDA ITEMS

No public participation.

G. AGENDA TOPICS

3. Synopsis of Public Meeting regarding Rate Increase Proposal - Geoff Larson

Mr. Larson asked the UAB members to review the meeting packet information for this agenda item, and indicated that generally speaking he considered the open house to be positive and that there were a number of takeaways for staff, which he has outlined in the packet. He also argued that the assembly should get answers to questions that were asked in the public meeting before the broad assembly meeting.

Mr. Larson also pointed out that the articles included in the meeting packet highlighted financial impacts. He also commented on the questions received from the public, and noted that there is a perception that the assembly may have an agenda or may not have their mind changed based on public testimony. Mr. Larson argued that there should be a second public meeting if possible since the interaction between Utility staff and the public was useful.

Mr. Gubala: A second meeting could focus on information based on the questions from the first meeting.

Mr. Larson: The FCS representative will be up for the next assembly meeting. Maybe it could be scheduled around that?

Chair Campbell: So what is going to happen with the questions that were asked?

Mr. McGuire: We've put them together, and we will put some answers together for them. The goal is to bring the questions from the public to the assembly meeting at the end of February along with the Rate Study Report that will be out over the next month.

4. Summary of conversations with Assembly Members

Mr. Campbell met with the Mayor, did not get to connect with Wade Bryson. The Mayor appears to be very supportive of the rate increases. She asked UAB to continue to reach out to the other assembly members. Mr. Campbell will continue to try and reach out to Wade Bryson, and thinks he will be partially supportive based on past experience and comments.

Mr. Cohen talked to the Mayor, Christine Woll, Neil Steininger, Paul Kelly, Maureen Smith, and is still trying to get ahold of Ella Adkinson. Main message to those folks was that there were other revenue discussions to have, but that the entire UAB is supportive of a long term plan for rate increases. Mr. Cohen felt like everyone got the message. Greg Smith mentioned that it might be good to look into more bonds in order to keep the costs down for people. Neil talked about ensuring that any savings in the future get turned back to the ratepayers.

Mr. Larson talked to Neil Steininger, went through the history of past rate increases. His big question was if there were other ways to finance these costs other than rates. Mr. Larson asked the staff about what other ways there were to provide financial input, and Mr. Larson was able to pass that back to Neil, which included Bonds, Treasury Loans, Obligation Bonds, etc. There seemed to be clear agreement that more money needed to be raised for the utility, but that it might not want to all come from rates. Mr. Larson is still working to meet with Alicia Hughes-Skandijs.

5. Utility Update - Chad Gubala

Mr. Gubala: Based on recent sampling, the CBJ water supply does not have lithium or PFAS in it. The October EPA inspection came back, and it was largely positive, with the exception of a few notes about graffiti, bullet holes on reservoirs and signage, etc.

The EPA is growing into their understanding about how to deal with public water supplies, including with regards to cybersecurity, and the EPA was able to redact and provide verbal responses so things stay out of the public record.

New Years: Water SCADA system went offline on New Years Day for 16 hours - much like having all of your instruments out while flying a plane. The plane still flies, but not for long. The Utility is working to put together manual fail-overs in this kind of situation. A network switch over midnight lost it's programming, rolled back to defaults, and caused issues with the network. The switch in question was from 2009 and was then installed in Salmon Creek in 2016 when it was built. Utility control systems are built on aged infrastructure, including old software including Windows XP.

Mr. Cohen: Can these things be updated to run modern software?

Mr. Gubala - no, the hardware needs to be updated.

The water system was out for 16 hours, and they calculated that there were about 44 hours of reserve for the community. There are now manual protocols now for filling tanks if necessary.

The Mendenhall plant is now under permit review and working to get it renewed. In the past there was a permit modification. In retrospect, the water chemistry in the valley was changing. Now in recent sampling, carbon is coming up through the river systems, and this consistent with USGS sampling of rivers in the area. There are also now high levels of copper in the river, and it is now considered impaired. This will affect the plant's ability to discharge to the river, as they move copper through the plant and it gets discharged. The Utility now needs to come up with a treatment plan for that. Chad is engaging with the EPA on this, and there is concern about needing to add tertiary treatment.

Ms. Schempff: The Army Corp decided where the navigable water starts and stops.

Mr. Gubala: For legal reasons, it's more about where Ocean water starts, which is really about measuring salinity.

Mr. Gubala also talked with Mr. Cohen - when the Utility was originally working with the Compliance order, they were working on Source Control issues in particular- this included issues with the Sewer Code. That was initially addressed by the permit modifications, and now this conversation needs to start again with the rate increase. There is now a goal to look at this again and come into line with our own Sewer code in 2025. It will likely take a year, and there may be a need to make sewer code modifications in order to work it all out.

6. SIU/MIU Users - Stuart Cohen

Mr. Cohen: These next two agenda items are all included together. Mr. Cohen has told the assembly that rates need to be raised, but that if there can be new sources of revenue, that might reduce how much rates need to be raised by.

CBJ does not charge other users according to strength like we are for cruise ships. The cost of cruise ship waste is higher because their strength is higher - and other rate payers should also be paying based on strength, according to Mr. Cohen.

There is a question about whether or not having differential rates for different users would violate Alaska Statute - CBJ Law may need to become involved in this discussion again with the full context of the current CBJ Sewer Code and departmental practice.

The Source Control Coordinator, which is an open position, could work on this, including working with people who are putting in over strength waste to reduce how much overly-strong waste is getting entered into the system.

Mr. Cohen argued that Cruise Ship revenue is effectively subsidized since the cruise ship companies do not pay into alternative forms of revenue that may or may not be directed towards the utility, including sales tax and property tax.

Mr. McGuire: One of the challenges is that we would need industrial users to self-report their strength, which means they'd need to test. This is not currently something the Utility is set up for.

Mr. Gubala - We have some bigger concerns about other things in the water -PFAS, etc., instead of strength. The Sewer code also does not fully address all of the needs that would be required to successfully implement this kind of charging and Source Control - for example, required testing and sampling methods and timelines.

Mr. Campbell - There may also be concerns about the economies of scale - the costs to setup and run testing equipment may offset any additional revenue that would come in from the additional strength.

Mr. Cohen: They may be standard figures out there for airplane waste and it's strength.

Mr. Campbell - since the airport is a metered property that pays based on the water meter reading, for both sewer and water. Airplanes discharging may not be getting counted in that meter. This would match other commercial users, who are paying their sewer bill based on their water meter usage.

Mr. Gubala - All in all, if there are going to be testing requirements and tracking for sewer usage, there will need to be updates to the Sewer Code. Right now we may have users of the sewer system who are discharging above the sewer code limits.

Mr. Larson encouraged the UAB to pick up this topic again at the next regularly scheduled meeting.

7. Recent Developments with Non-Resident Ratepayers - Stuart Cohen

See agenda item: SIU/MIU Users - Stuart Cohen.

H. NEXT MEETING DATE

8. February 13th, 2025 @ 5:15 PM

I. SUPPLEMENTAL MATERIALS

J. ADJOURNMENT

The meeting adjourned at 6:15 PM on Thursday, January 9, 2025.

Note: The recording was ended inadvertently before the meeting was officially adjourned, but Chair Campbell immediately adjourned the meeting following the recording stoppage.

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Utilities Division

2009 Radcliffe Road, Juneau, AK 99801
907.586.0393 <phone> 907.789.1681 <fax>

February 13, 2025
The Honorable Lisa A. Murkowski
U.S. Senator
522 Hart Senate Office Building
Washington, DC 20510

RE: *In Support of Federal Funding for Mendenhall Wastewater Treatment Plant Compliance:
Fats, Oil, and Grease & Grit Removal*

Dear Honorable Senator Murkowski,

As you are likely well aware, every Utility provides public health services essential to their community and faces daily challenges in doing so. Here in Juneau, a current concern is the Utility's ability to meet regulatory obligations in the face of the high loadings from the community. The Utilities Advisory Board (UAB) strongly supports a project that we feel would greatly improve the Mendenhall Wastewater Treatment Plant's capacity and compliance: the Fat, Oil, Grease (FOG) & Grit Removal project. Funding for this project is made crucial by the competing costs of our aging infrastructure and the increase in demand from commercial and residential users – be it cruise ships or year-round restaurants, breweries, businesses and residents.

The UAB was created in 2004 with the purpose of making recommendations concerning the operation and management of the municipally-owned utilities here in Juneau. As providing such a crucial and complex service to an isolated, yet sizeable, community offers challenges that demand a vast array of expertise, the UAB has been leveraged to discuss and support multiple projects, rate changes, and community-wide efforts. As Vice Chair of the UAB, I am affirming the UAB's support this critical project to increase the efficiency and longevity of the City of Juneau's wastewater infrastructure.

Staff has kept the UAB apprised of the fact that Fats, Oils and Grease (FOG) are an issue for the Mendenhall Wastewater Treatment Plant – the largest of our three treatment plants here in Juneau. As the UAB is comprised of engineers, large commercial users, and residential users, we are inherently aware that FOG can come from both commercial and residential sources, making it difficult to regulate or monitor. FOG is pollution that requires special treatment; further, its presence in the treatment process promotes micro-organisms that settle poorly and subsequently cause effluent permit violations. These permit violations are now the basis of a binding compliance action that requires new measures to resolve, such as this proposed project.

As costs increase across the state and the country, it is essential that Municipalities find ways to increase efficiency and mitigate expenses to their users wherever possible. It is this spirit – of care for our community, drive for sustainability, and commitment to productivity – that I write in support of this project.

Should you have any questions or concerns, please feel free to contact our office at 907.321.2265

Sincerely,

Geoff Larson
Vice Chair, Utilities Advisory Board
Co-Founder, Alaskan Brewing Company

CC: *The Honorable Senator Dan Sullivan, The Honorable Representative Nick Begich*



Utilities Division

2009 Radcliffe Road, Juneau, AK 99801
907.586.0393 <phone> 907.789.1681 <fax>

February 13, 2025

The Honorable Lisa A. Murkowski
U.S. Senator
522 Hart Senate Office Building
Washington, DC 20510

RE: City and Borough of Juneau Congressionally Directed Spending / Community Project Funding Requests

Dear Honorable Senator Murkowski,

The Utility Advisory Board (UAB) strongly supports the City and Borough of Juneau's (CBJ)'s project, "Glacial Lake Outburst Flood Disaster Mitigation – Protecting the Mendenhall Wastewater Treatment Plant" and the community's request for FY2026 Congressionally Directed Spending funding to protect our critical infrastructure.

The UAB was created in 2004 with the purpose of making recommendations concerning the operation and management of the municipally-owned utilities here in Juneau. As providing such a crucial and complex service to an isolated, yet sizeable, community offers challenges that demand a vast array of expertise, the UAB has been leveraged to discuss and support multiple projects, rate changes, and community-wide efforts. It does not, however, take expertise to see the need to provide protection for our community's primary wastewater treatment plant from a known and increasing natural disaster.

CBJ's proposed project would conduct both near and long-term flood mitigation and resilience construction to protect the community's primary wastewater treatment facility. The 2023 and 2024 Glacial Lake Outburst Flood (GLOF) events caused significant scouring of the riverbank in front of the Mendenhall Wastewater Treatment Plant (MWWTP), threatening the facility and primary outfall, and damaging the facility's emergency outfall. CBJ engineers have identified the need to install a sheet pile wall along the riverbank to both prevent catastrophic damage to the facility from future GLOFs and reduce ongoing flood recovery and reconstruction costs. The proposed sheet pile wall will prevent further erosion and inundation of the MWWTP, thereby protecting critical public infrastructure, preserving community public health and safety, and potentially saving the community hundreds of millions of dollars in damage and recovery costs.

We urge your support of this important project benefitting our entire community.

Sincerely,

Geoff Larson
Vice Chair, Utilities Advisory Board
Co-Founder, Alaskan Brewing Company

CC: The Honorable Senator Dan Sullivan, The Honorable Representative Nick Begich



UAB Meeting

Utility Update

Brian McGuire
Dr. Chad Gubala
2/13/2025



Agenda

- Utility Topics for UAB
 2. Alternative funding scenarios - Potential Utility Bond Revenue
 3. Utility Update



Agenda

- Utility Topics for UAB

2. Potential Utility Bond Revenue

3. Utility Update

Brian

Chad



Projects for Bond

- We were asked to work with UAB on 2 scenarios
 - \$10MM bond for WW
 - \$20MM bond for both



Projects for Bond

—Sewer \$10MM

Project Name	Cost Estimate
MWWTP SBR Waste Pumps Replacement	\$ 431,000
MWWTP Biosolids Loadout Upgrade	\$ 4,200,000
MH SBR Influent Valve Replacement	\$ 540,000
MWWTP Pretreatment Improvements (FOG/grit removal)	\$ 7,221,200
MWWTP Treatment Upgrade - UV Disinfection Sys replacement	\$ 5,762,000
MWWTP Outfall maintenance and rehabilitation	\$ 330,000
MWWTP MCC upgrades/replacements	\$ 264,000
Road Reconstruction \$2M /yr (Sewer Piping)	\$ 11,200,000
MWWTP Site Improvements (lighting, security, access, HVAC)	\$ 1,500,000

Total: \$30.4MM



Projects for Bond

– Sewer \$10MM – Our List

Project Name	Cost Estimate	#
MWWTP SBR Waste Pumps Replacement	\$ 431,000	1
MWWTP Biosolids Loadout Upgrade	\$ 4,200,000	1
MH SBR Influent Valve Replacement	\$ 540,000	2
MWWTP Pretreatment Improvements (FOG/grit removal)	\$ 7,221,000	1
MWWTP Treatment Upgrade - UV Disinfection Sys replacement	\$ 5,762,000	2
MWWTP Outfall maintenance and rehabilitation	\$ 330,000	1
MWWTP MCC upgrades/replacements	\$ 264,000	1
Road Reconstruction \$2M per year	\$ 11,200,000	1
MWWTP Site Improvements (lighting, security, access, HVAC)	\$ 1,600,000	2

Total: \$9.8MM



Projects for Bond -\$20M

Project Name	Cost Estimate
MWWTP SBR Waste Pumps Replacement	\$ 431,000
MWWTP Biosolids Loadout Upgrade	\$ 4,200,000
MH SBR Influent Valve Replacement	\$ 540,000
MWWTP Pretreatment Improvements (FOG/grit removal)	\$ 7,221,200
MWWTP Treatment Upgrade - UV Disinfection Sys replacement	\$ 5,762,000
MWWTP Outfall maintenance and rehabilitation	\$ 330,000
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Road Reconstruction \$2M/yr (Sewer Piping)	\$ 11,200,000
MWWTP Site Improvements (lighting, security, access, HVAC)	\$ 1,500,000
LCB SCADA & Security Upgrade	\$ 656,000
PRV Station Improvements & SCADA Upgrades (Crowhill, 5th St Douglas)	\$ 261,000
Potable Water Distribution Instrumentation	\$ 461,400
LCB well pump VFD conversion and programming upgrades	\$ 1,848,000
Salmon Creek Plant Filter Replacement	\$ 3,036,000
Salmon Creek Reservoir major rehab	\$ 1,782,000
Condition Assessment	\$ 282,000
Road Rehab Projects \$2M/yr (Water Piping)	\$ 11,200,000

Total: \$50.9MM



Projects for Bond - \$20M

Combined \$20MM – Our List (~\$15M/\$5M)

Project Name	Cost Estimate	
MWWTP SBR Waste Pumps Replacement	\$ 431,000	1
MWWTP Biosolids Loadout Upgrade	\$ 4,200,000	1
MH SBR Influent Valve Replacement	\$ 540,000	2
MWWTP Pretreatment Improvements (FOG/grit removal)	\$ 7,221,200	1
MWWTP Treatment Upgrade - UV Disinfection Sys replacement	\$ 5,762,000	2
MWWTP Outfall maintenance and rehabilitation	\$ 330,000	1
MWWTP MCC upgrades/replacements	\$ 264,000	1
Road Reconstruction \$2M per year (TBD)	\$ 3,000,000	1
MWWTP Site Improvements (lighting, security, access, HVAC)	\$ 1,500,000	2
LCB SCADA & Security Upgrade	\$ 656,000	2
PRV Station Improvements & SCADA Upgrades (Crowhill, 5th St Douglas)	\$ 261,000	1
Potable Water Distribution Instrumentation	\$ 461,400	1
LCB well pump VFD conversion and programming upgrades	\$ 1,848,000	1
Salmon Creek Plant Filter Replacement	\$ 3,036,000	2
Salmon Creek Reservoir major rehab	\$ 1,782,000	2
Condition Assessment	\$ 282,000	1
Road Rehab Projects – TBD (Glacier Hwy Water main rehab?)	\$ 2,500,000	2

Total: \$19.9MM (~\$13M/\$7M)



Projects for Bond

—Next Steps

- Finalize selection of projects
- Forward to Manager's Office



Agenda

- Utility Topics for UAB

- 1. Potential Utility Bond Revenue

- 2. Utility Update

- Regulatory Update
 - January 20 'Regulatory Freeze Pending Review'
 - Status and disposition of LSLI program
 - BMP internal guidance
 - Utility - Staffing Shortages

Brian

Chad

75.02.130 Schedule of rates and charges

- (3) **Industrial customers: Customers in the industrial category shall pay a metered rate according to the following formula:**

$$\text{Monthly Rate} = \text{Vo} + \text{V1} + \text{bo} + \text{B1} + \text{so} + \text{S1}$$

Vo = Average unit costs of transport and treatment chargeable to volume, \$/gallon

bo = Average unit costs of treatment, chargeable to BOD, \$/pound

so = Average unit costs of treatment, chargeable to SS, \$/pound

V1 = Volume of wastewater from industrial users, gallons/month

B1 = Weight of BOD from industrial users, pounds/month

S1 = Weight of SS from industrial users, pounds/month

BOD = Five-day biochemical oxygen demand

SS = Suspended solids

- (4) **Rate:** Commencing July 1, 2023, customers shall pay for sewer service at the following rates:

Water Utility Rate Schedule			
Customer Class	Monthly Allowance (Gallons)	RATES	
		Base (per month)	Volume Charge (per 1,000 gallons)
Flat Residential	—	\$104.00	—
Metered Residential	4,000	\$104.00	\$13.83
Flat Commercial	—	\$104.00	—
Metered Commercial (Domestic)	4,000	\$104.00	\$13.83
Metered Commercial (High)	500,000	\$104.00	\$13.83
Septage Hauling	—	—	\$39.49

COMMERCIAL RATE OVERVIEW

Currently, the city is not following its own ordinances for how to charge Industrial Users. These users include the hospital, the dump, breweries, fish-processing plants, restaurants, and waste haulers. It's an issue both because it prohibits us from raising cruise line and airline rates and also because of equity reasons: undercharging industrial users means that residential users must pay more to make up the difference.

Fortunately, this presents us with an opportunity to make changes in our point source control that will reduce strain on our system and bring down costs for the city as a whole.

AMBIGUOUS SEWER ORDINANCES

Current Sewer codes 75.02.130, parts 3 and 4 deal with Industrial users. By the formula spelled out in Part 3, a formula is given for how industrial users should pay, according to their monthly total of BOD and TSS emitted into the system. The intention seems to be to charge industrial users in accordance with the costs their additional loading imposes on the system.

Below that formula, in Part 4, it stipulates a charge of \$13.83 per 1000 gallons. My assumption is that the Ordinance intended for the \$13.83 to be a baseline rate below a certain volume of BOD and TSS, and for the actual charges to be scheduled according to the sliding scale currently used for the cruise lines, calculated on a monthly basis. Currently, though, all industrial users are being charged the baseline rate only.

CHALLENGES TO IMPLEMENTING THE FORMULA:

There are challenges to bringing charges in line with the formula, including:

- Measuring BOD and TSS levels for all the entities indicated.
- Avoiding business-crushing sewage expenses for affected businesses.
- Balancing increased oversight expenses with increased revenue and lower costs.

As we discuss the issue, we should look for ways to help businesses reduce their sewage fees by cleaning up their waste stream. Solutions will differ for each user group.

PARTIAL ACTION PLAN

1. Research the average concentration of BOD and TSS in waste disposed of by airplanes on 2 hour flights and perhaps a variety of flight lengths.
2. Research the average concentration of BOD and TSS for restaurants.
3. Research solutions to installing grease traps in restaurants, as well as costing out the collection and disposal of the grease, and possible solutions (like burning it)
4. Devise a plan to systematically monitor Small Industrial Users, at least to get a baseline.
5. Devise a pretreatment plan and rate schedule for each SIU, depending on our ability to monitor their waste.

6. Compile list of money- or energy-saving opportunities in the PW dept. to explore and implement.
7. Devise a long-term public education and solutions program for residential FOG and food waste.

Other things we need:

A copy of any contract or agreement with the cruise lines regarding waste disposal.

A copy of any contract or agreement with waste haulers.

Records of volume and charges for Small Industrial Users, and the same for MIU (restaurants, groceries) This should be both individual and agglomerated by user-group.

Records of volume and charges for waste haulers, broken out into waste streams if possible (airline waste, Gustavus waste, septic tank waste)

UTILITY RATES FOR WASTEWATER

The Cruise Line shall pay the current rates set for wastewater collection as provided under CBJ 75.02.130, available online at: <https://juneau.org/engineering-public-works/utilities-division/rates>.

Rates currently imposed under CBJ 75.02.130 as of July 1, 2024:

Concentration (mg/L)	Tariff (\$ per 1000 gallons)
BOD < 300 and TSS < 350	\$14.10
BOD < 600 and TSS < 700	\$28.21
BOD < 900 and TSS < 1050	\$42.31
BOD < 1200 and TSS < 1450	\$56.41
BOD < 1500 and TSS < 1750	\$70.52
BOD < 1800 and TSS < 2100	\$84.62
BOD < 2100 and TSS < 2450	\$98.72
BOD < 2400 and TSS < 2800	\$112.83
BOD < 2700 and TSS < 3150	\$126.93
BOD < 3000 and TSS < 3500	\$141.03
BOD < 3300 and TSS < 3850	\$155.14
BOD < 3600 and TSS < 4200	\$169.24
BOD < 3900 and TSS < 4550	\$183.34
BOD < 4200 and TSS < 4900	\$197.45

For BOD > 4200 or TSS > 4900 concentrations, the charge rates (in dollars) shall be calculated as follows (as the value that is greater per each 1000 gallons of wastewater accepted by CBJ):

- (BOD/300) rounded up to the next integer multiplied by 14.10, **OR**
- (TSS/350) rounded up to the next integer multiplied by 14.10.

Should the rates be amended during the course of the agreement, the Cruise Line agrees to pay the current rate as amended. The Parties agree that this Attachment shall be amended to reflect the current rates without change order or other amendment to the Agreement and the rates will be effective on the date implemented by ordinance.