

Division of Wastewater – Policies and Procedures Manual Standard Policies and Procedures	
Policy Number – AUB-02-02	Revision Number: 5
Subject Surcharge Rates for High Strength Wastewater	Effective Date: 7/01/13
	Superintendent Approval:
	General Manager Approval:

1.0 PURPOSE

The purpose of this policy is to outline established surcharge rates for wastewaters that contain above normal concentrations of contaminants discharged into the Athens Utilities Board (AUB) Wastewater Collection System.

2.0 SCOPE

This policy applies only to industrial users discharging wastewaters to the AUB Wastewater Collection System and treatment facilities.

3.0 REFERENCES

- (1) Athens Municipal Code Title 18 Water and Sewers
- (2) EPA, 40 CFR 136

4.0 GENERAL

Non-residential discharges that exceed compatible contaminant concentrations or loadings for “domestic wastewater” in *Section 6.1* shall be required to pay additional surcharge rates using the formula in *Section 6.2* in addition to the normal wastewater use fee.

5.0 DEFINITIONS

AUB – the Athens Utilities Board, and its duly authorized employees, agents, and representatives **Board** – the Chairman and all Commissioners but does not include any employees

Composite Sample – a flow proportional sample taken from a waste stream during a specific timeframe (e.g., 24 hours)

Grab Sample – a sample taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time

Local Control Authority – Superintendent of Water and Wastewater or duly authorized representative

Representative Sample – a sample of the actual waste that is being discharged to the AUB Wastewater Collection System and/or treatment facilities

Customer – any person discharging waste to AUB’s Wastewater Collection System and/or wastewater treatment facilities

WWTP – Wastewater Treatment Plant, facilities owned and operated by AUB

Industrial User – any industry discharging waste to the AUB Wastewater Collection System and/or treatment facilities

6.0 POLICY/PROCEDURES

A surcharge rate will be assessed for waste containing compatible pollutants in concentrations greater than those for “domestic wastewater.” The surcharge rate shall be based on the average analytical results

at a frequency determined by each industrial user's (IU's) permit collected at the monitoring manhole during the month. However, a surcharge for holding tank waste shall be based on a representative grab sample. Samples shall be collected and analyzed by either department personnel at the WWTP, by an authorized independent laboratory or by the permitted user when required by the local control authority. Sample collection and analysis shall be in accordance with 40 CFR Part 136 as amended.

6.1 Surcharge Limits

The following table lists wastewater discharge limitations for specific contaminants. Wastewaters in excess of the table limits or authorized Industrial User (IU) permits are subject to AUB surcharge rates.

Contaminant	Wastewater System Limit
BOD	300 mg/l
Suspended Solids	300 mg/l
Total Kjeldahl Nitrogen	40 mg/l
Fats, Oils and Grease (FOG)	100 mg/l
Phosphorus	10 mg/l
Nitrogen	30 mg/l

6.2 Surcharge Rate Calculation

The following formula shall be used to determine the amount of surcharge unless defined otherwise in an industrial user's permit:

$$\text{SURCHARGE RATE} = S_{\text{BOD}} + S_{\text{TSS}} + S_{\text{TKN}} + S_{\text{FOG}} + S_{\text{P}} + S_{\text{N}}$$

Where,

- S_{BOD} = surcharge for BOD
= (Discharge Value – 300 mg/l) * 8.34 / 1,000 * Flow to Collection System (in thousands of gallons) * Number of days in that month
- S_{TSS} = surcharge for Suspended Solids
= (Discharge Value – 300 mg/l) * 8.34 / 1,000 * Flow to Wastewater (in thousands of gallons) * Number of days in that month
- S_{TKN} = surcharge for Total Kjeldahl Nitrogen
= (Discharge Value – 40 mg/l) * 8.34 / 1,000 * Flow to Wastewater (in thousands of gallons) * Number of days in that month
- S_{FOG} = surcharge for Fats, Oils and Grease
= (Discharge Value – 100 mg/l) * 8.34 / 1,000 * Flow to Wastewater (in thousands of gallons) * Number of days in that month
- S_{P} = surcharge for Total Phosphorus
= (Discharge Value – 10 mg/l) * 8.34 / 1,000 * Flow to Wastewater (in thousands of gallons) * Number of days in that month
- S_{N} = surcharge for Total Nitrogen
= (Discharge Value – 30 mg/l) * 8.34 / 1,000 * Flow to Wastewater (in thousands of gallons) * Number of days in that month

The surcharge shall be added to the customer's monthly bill.

*" Discharge Values" will be actual daily values when data is available and monthly average values otherwise.