



دفتر نظارت بر بهره برداری



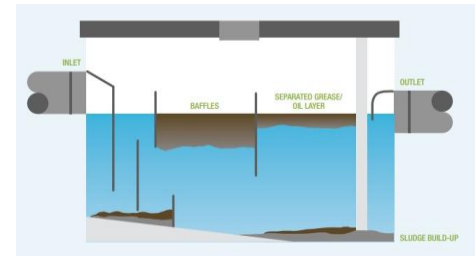
شرکت مهندسی آب و فاضلاب کشور

Guidelines for Providing Sewer Connections to Commercial and Industrial Facilities

Guideline for Providing Sewerage Connections to Commercial and Industrial

Establishments Standard No. 851
Ministry of Energy : 2022–2023 (Iranian
Calendar Year 1401)

Objective: To establish the requirements
and regulations governing the provision of
sewerage connections to commercial and
industrial establishments.



جمهوری اسلامی ایران
سازمان برنامه و بودجه کشور

راهنمای واگذاری انشعابات فاضلاب
به مراکز تجاری و صنعتی

ضابطه شماره ۸۵۱

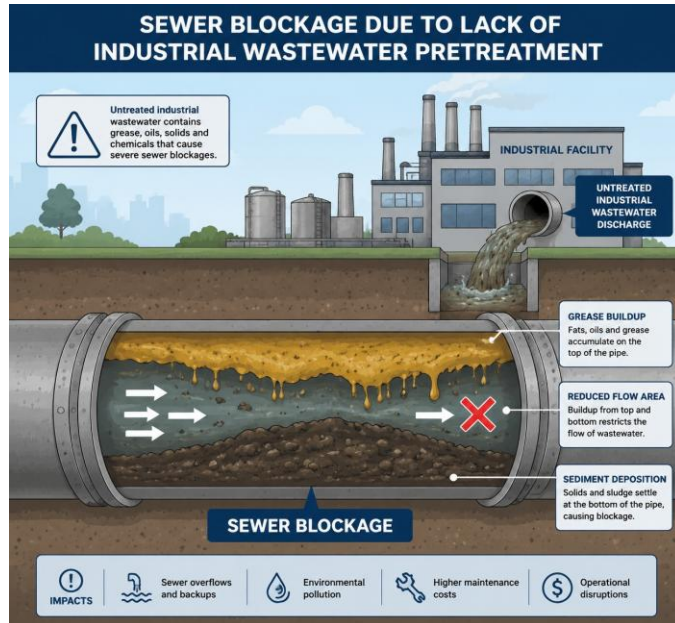
آخرین ویرایش: ۲۸-۰۶-۱۴۰۱



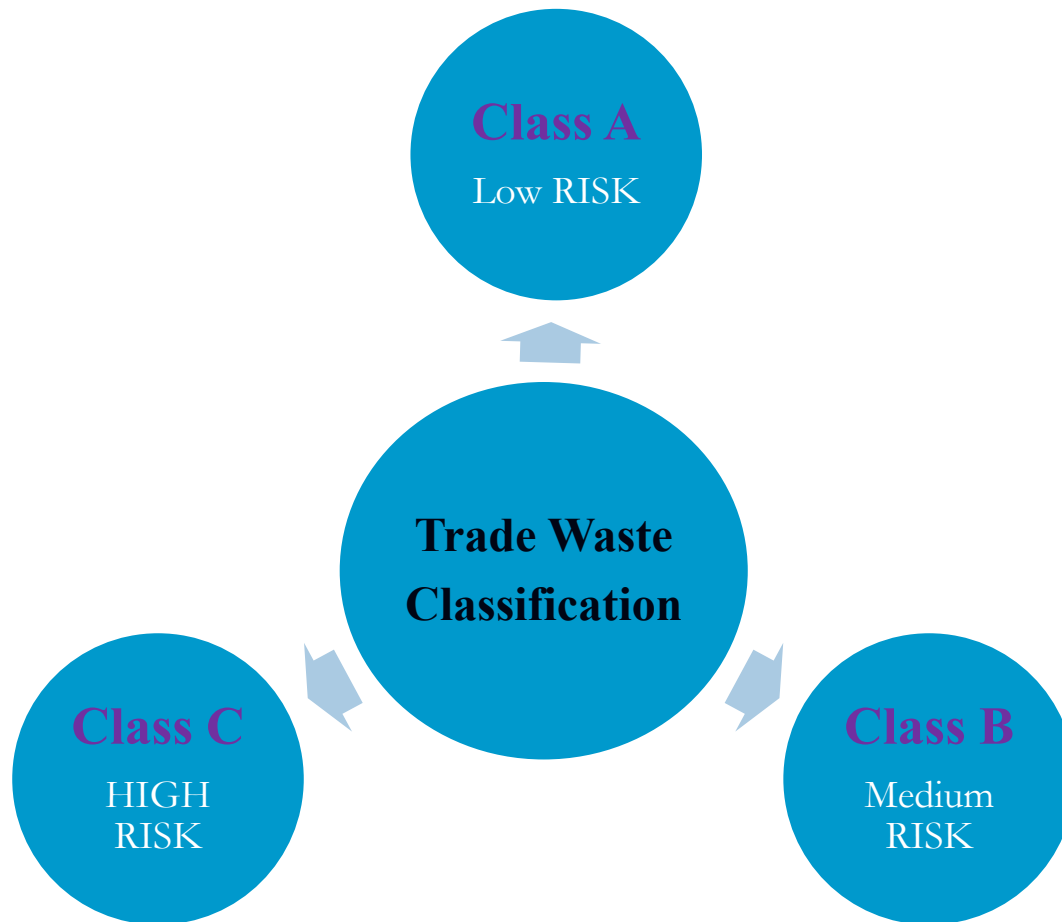
Objectives of the Guideline's Development



Unpretreated Sewage Discharge Problems

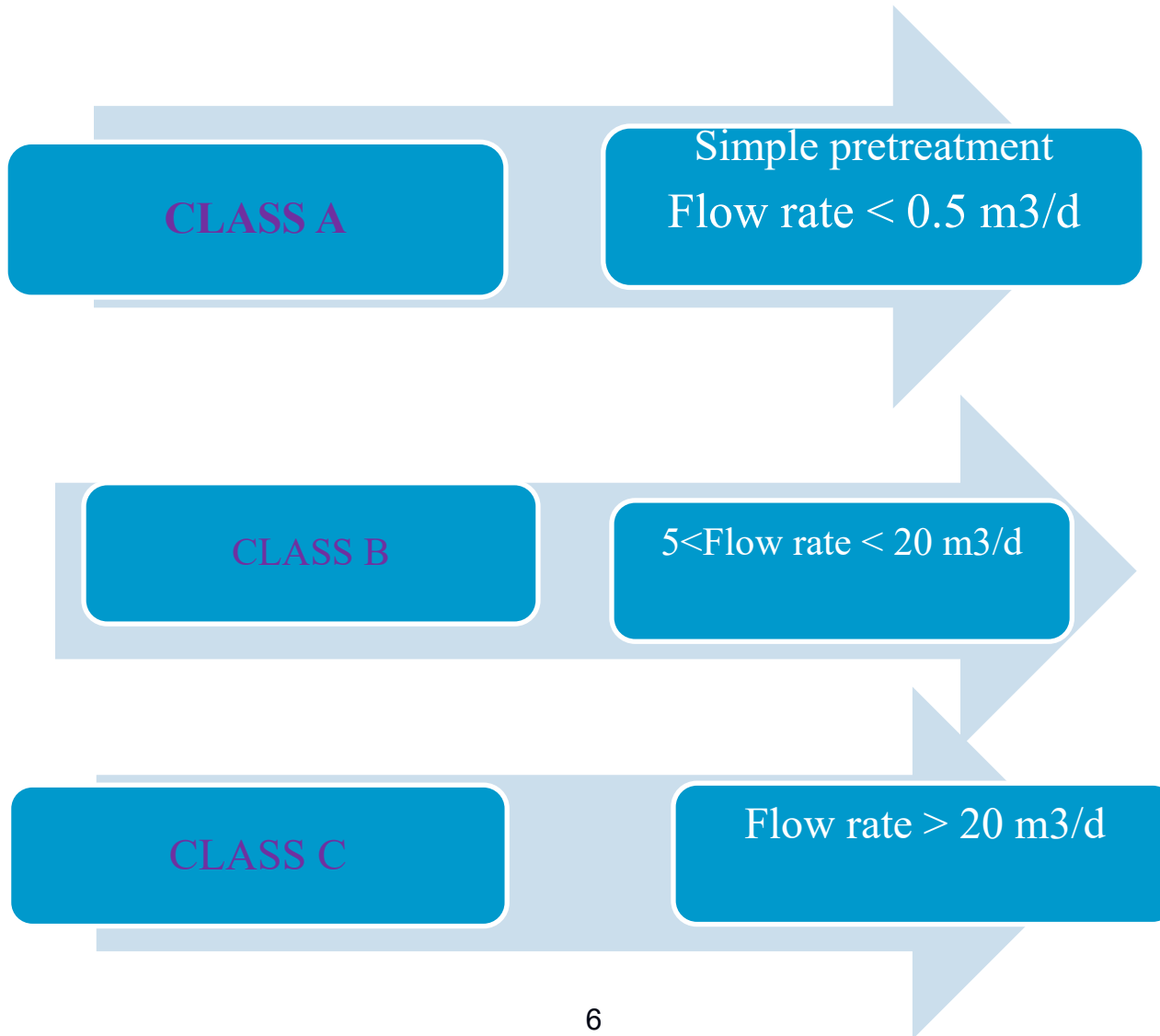


Trade Waste Classification



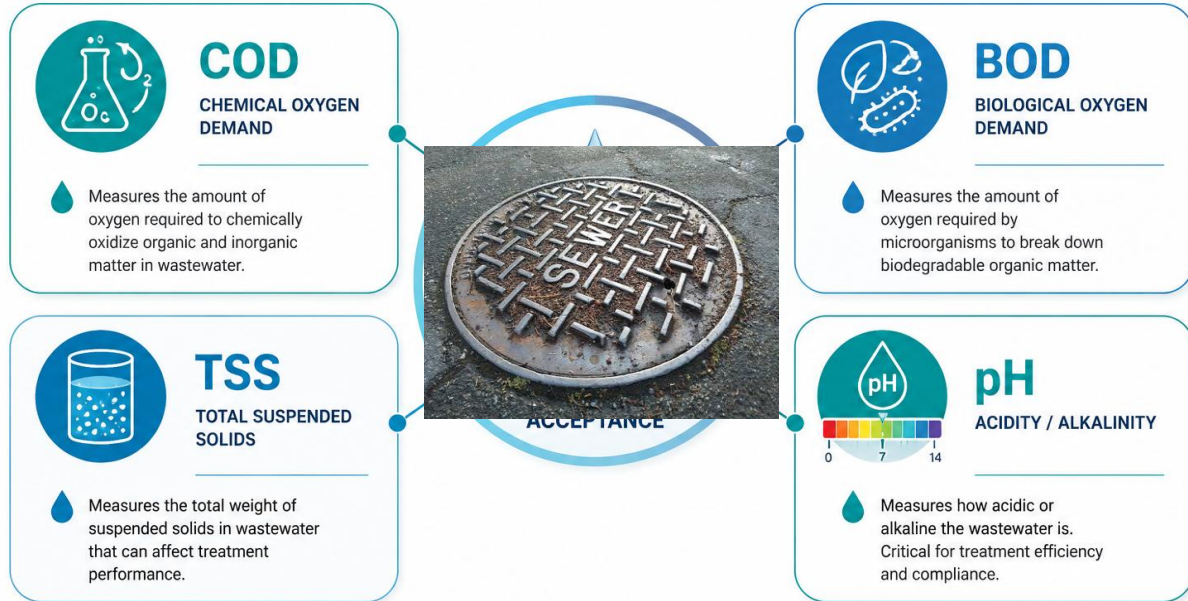
“This classification is the basis for defining control, pretreatment, and monitoring requirements.”

Trade Waste Classification



KEY WASTEWATER ACCEPTANCE PARAMETERS

Ensuring Quality. Protecting Treatment. Complying with Standards.



PROTECT TREATMENT
SYSTEMS



ENSURE OPERATIONAL
EFFICIENCY



MEET REGULATORY
COMPLIANCE



SUPPORT ENVIRONMENTAL
STEWARDSHIP

Parameter	values
BOD	350
COD	700
TSS	380

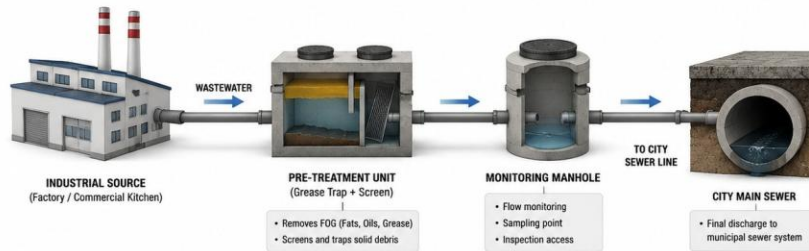
Trade Wastewater Permissible Limits for Discharging into Sewer Pipe

Parameter	Limitation
Flowrate	Maximum daily flowrate is determined according to sewer collection pipe.
BOD(mg/L)	350
TSS(mg/L)	380
COD(mg/L)	700
TDS(mg/L)	Up to 4000
T _{°C}	37
pH	7-9
FOG(mg/L)	100
NH ₃ (mg/L)	50
B(mg/L)	5
....	

Pretreatment Method Examples

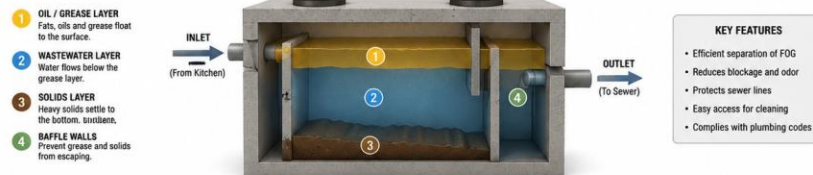
1. WASTEWATER CONNECTION PATH

From Factory to City Sewer Line



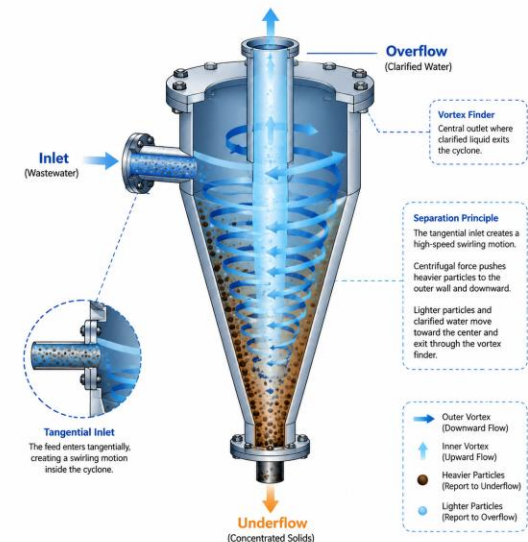
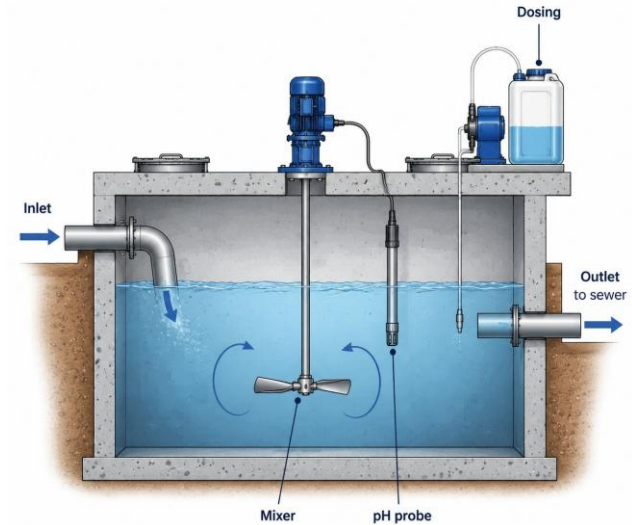
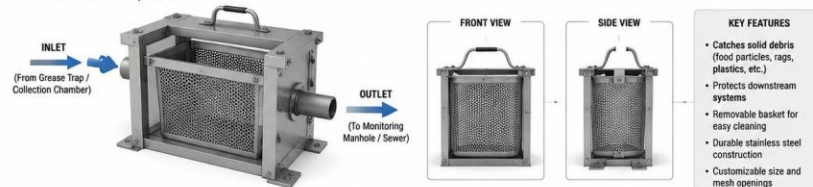
2. INDUSTRIAL GREASE TRAP (GREASE INTERCEPTOR)

3D Schematic and Working Principle



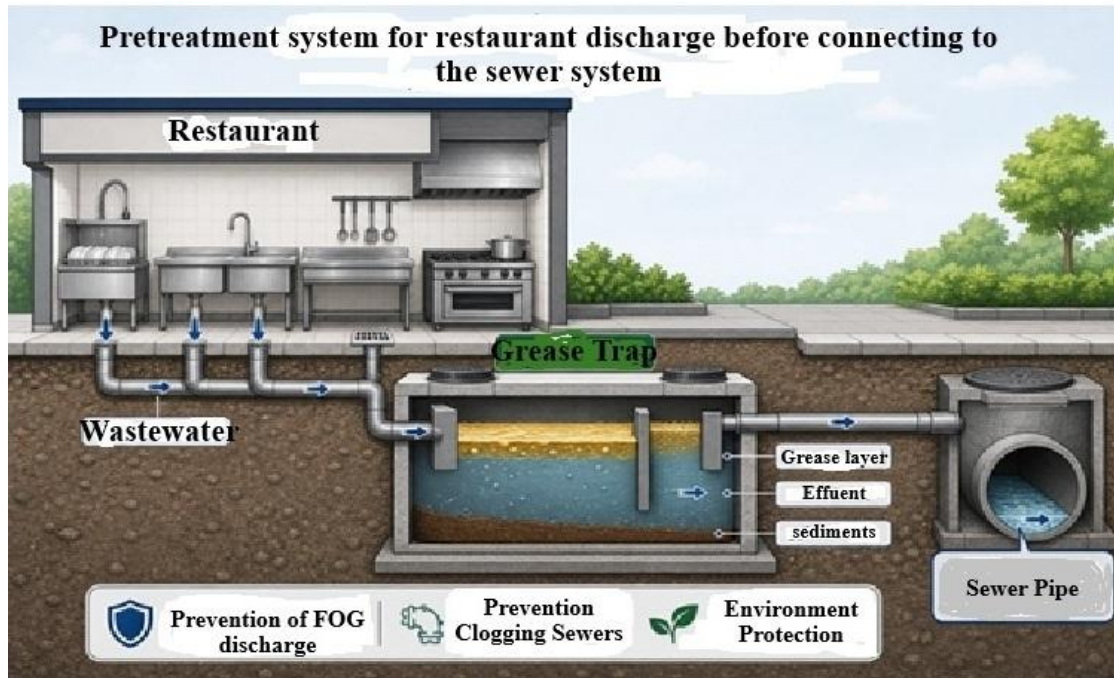
3. MECHANICAL WASTEWATER SCREEN (ARRESTOR BASKET)

3D Illustration and Components



Pretreatment Method Examples

Restaurant



11-2-4 Mechanical Workshops

SCOPE



oil change



auto body repair



mechanical
workshop



boat repair



motorcycle/bicycle
repair



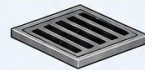
Parts washing



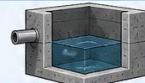
Equipment washing



Floor washing



Floor drains with
fixed screens/grates



Collection sump



Non-emulsifying
pump only

SEPARATOR (CHOOSE ONE OPTION)



CPI Separator
(min 1,000 L/h)



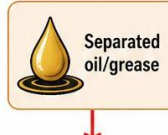
Vertical Gravity
Separator



Hydrocyclone
Separator



Permitted sewer discharge



Separated
oil/grease



Collect for
proper disposal



PROHIBITED:
Do not discharge
wastewater from
the paint shop /
spray booth into
the public sewer
network.



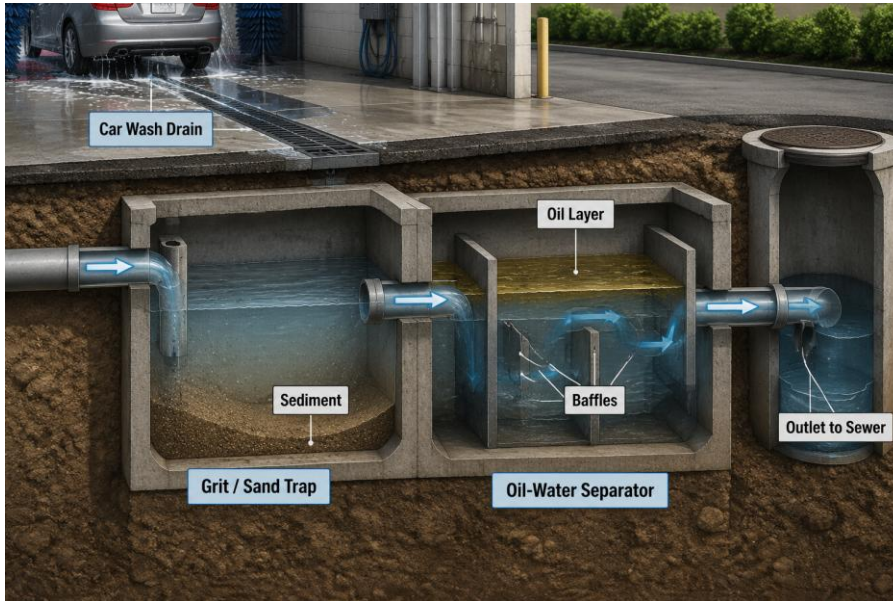
Avoid detergents whenever possible.
If unavoidable, use biodegradable
detergents only.



Only use non-emulsifying
pumps to feed the separator.

Pretreatment Method Examples

Car wash

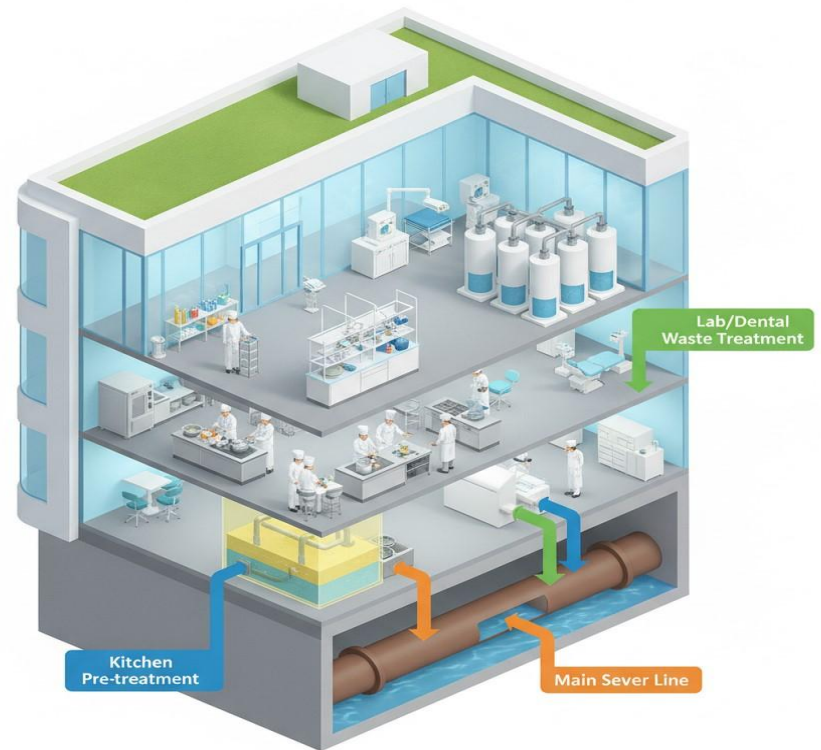


Regulations for Providing Hospital Wastewater Connections to the Public Sewer Network

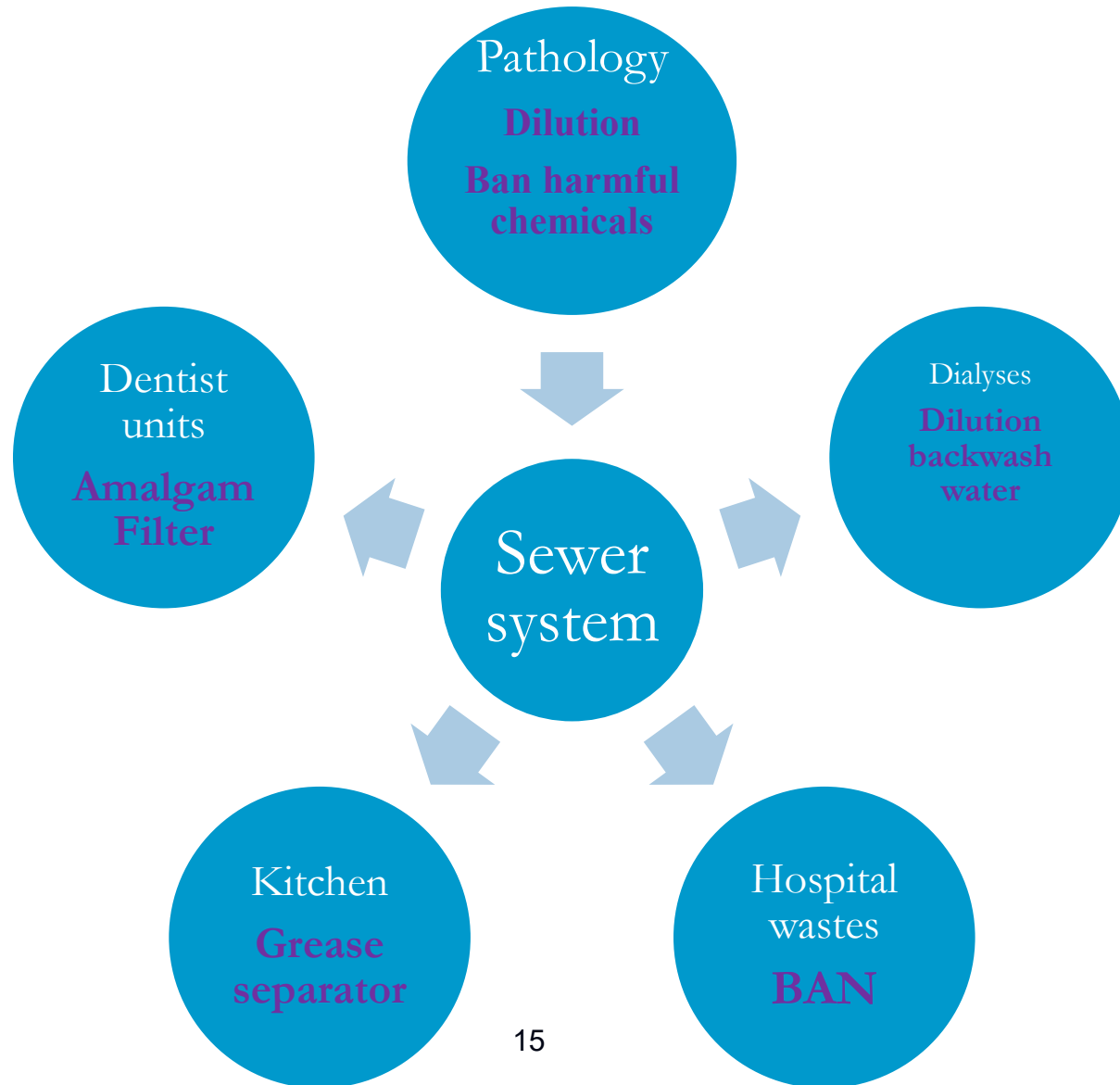


Hospital waste stream Classification

- Dentistry
- Pathology
- Dialysis
- Chicken
- Hospital Solid Wastes
-

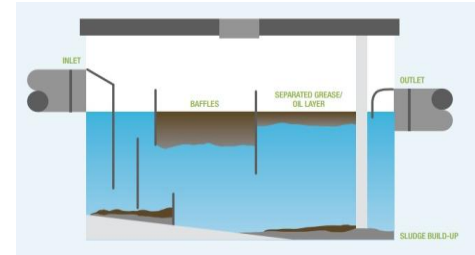


Hospital waste stream Classification and pretreatment





**Operational Bylaws and
General Conditions of
Wastewater Tariffs
Regarding Surcharge for
Excess Pollutant Load in
Non-Residential Discharges.”**



Calculation of Excess pollutants Load

$$\text{ELTC} = V \times \left[\frac{P_p(C_p - C_i)}{C_i} \right]$$

ELTC : Excess Load Tarif Calculation

V : Mountry water Consumption Volume

P_p : Wastewater Disposal Fee Tarif with Free-Market Pricing

C_p : Pollutant indicator Concentration in Customer Wastewater

C_i : Pollutant Permitted Concentration for Discharging into Sewer

Thank you for your Attention