

QUESTIONNAIRE – POND TREATMENT PLANT

OLOID – Agitate, Circulate, Aerate

In order to quickly clarify whether this energy-saving technology is suitable for your application, please fill out the questionnaire as far as possible and to send us by e-mail.

Questionnaire

1. General Information

1.1. Project type

- New construction
- Modification
- Expansion
- Process optimisation
- Another type Short description:.....
.....

1.2. Sewage source

- Only commercial / industry
- Commercial / industry and domestic sewage of the company
- Commercial / industrial with domestic sewage from residential areas outside the enterprise
- Type of sewage:
.....

1.3. Waste water discharge

- Introduction to public sewerage (indirect discharge)
- Introduction directly into receiving water (direct discharge)
- Other type of discharge Short description:
.....

1.4. Specific information on the company

- Shift operation:h/d; d/w
- Seasonal operation:w/a
- Operation on demand:
- Other operation mode:
- Connected sewage effluent from: Residents; Employees
- Connected residents outside the company: Residents

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2. Operational sewage treatment

- Rake system
 - Micro Strainer
 - Sanding
 - Buffer tank
 - Neutralization stage
 - Solid material separation in settling tank
 - Other pre-treatment: Short description:
-

3. Pond geometry and volume

(If possible enclose sketch)

- Number of ponds with below dimension: Stk.
- Width of pond: m
- Length of pond: m
- Diameter of pond: m
- Water height: min: m
max: m
median m
- Pond volume: min: m³
max: m³
median:..... m³
- Inlet: l/s
- Information on the pond wall model, short description:
.....
.....

3. Waste water quantity

- 3.1. Daily value: min: m³/d
max: m³/d
median: m³/d based on d/a
- 3.2. Weekly value: min: m³/w
max: m³/w
median: m³/d based on d/a
- 3.3. Hourly value: min: m³/h
max: m³/h
median: m³/d Based on mean time of daily
Waste water: hourly average

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4. Sewage structure (24 h mixed samples)

We assume that in many cases not all of the in the table below listed physical-chemical parameters are available. Please enter all that are available.

Waste Water Parameter	Unit	Pond feeding	Pond drainage (required)
		Daily Means	Daily Means
Temperature	°C		
PH-value			
Totally Suspended Substances TSS	mgTSS/l		
Organic part of TSS	mgTSS _{org} /l		
BOD ₅ (Homogenised sample)	mg O ₂ /l		
COD _{total}	mg CSB/l		
COD _{dissolved, inert (non-degradable)}	mg CSB/l		
CSB _{dissolved, readily degradable}	mg CSB/l		
Total Kjeldahl Nitrogen TKN	mg/l		
Dissolved Kjeldahl Nitrogen	mg/l		
Ammonium-Nitrogen (NH ₄ -N)	mg/l		
Nitrate-Nitrogen (NO ₃ -N)	mg/l		
Nitrite-Nitrogen (NO ₂ -N)	mg/l		
Phosphate (PO ₄ -P)	mg/l		
Total Phosphorus	mg/l		
Dissolved Phosphorus	mg/l		
Alkalinity	mol/l		

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5. Provisional operation and operating parameters

5.1. Operation of the ponds or reactors:

- Continuous feed with waste water
- Discontinuous feed with waste water
- Operation of ponds using Sequence Batch Reactor (SBR) procedures

Operation of the reactors as:

Denitrification basin

Anaerobic bio-P elimination basin

Other basin types Short description:

.....

- Operation of ponds with secondary clarification, without return sludge conveying
- Operation of ponds with secondary clarification, with return sludge conveying

5.2 Temperature (daily average): °C

5.3 PH-value (daily average): pH

5.4 Activated sludge concentration pond / reactor: mgTSS/l

5.5 Active sludge concentration, organic fraction: mgTSS_{org}/l

