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This presentation is used with Lesson Plan
Operation and Maintenance in the
Introduction to Faecal Sludge Management Trainer
Manual

Available at www.cawst.org/resources and www.sandec.ch

Operation and Maintenance of Faecal Sludge Treatment Facilities

2016 | JULY



Sandec
Sanitation, Water and
Solid Waste for Development

Learning Outcomes

- Identify common operational challenges of faecal sludge treatment facilities.
- Discuss the importance of a monitoring plan to ensure a faecal sludge treatment facility is operating as designed.
- Discuss methods of ensuring that industrial sludge is not discharged at faecal sludge treatment facilities.

Treatment Failures

Yaoundé, Cameroon



(Credit: Eawag-Sandec)

Treatment Failures

Bangalore, India



(Credit: Eawag-Sandec)

Treatment Failures

Dar es Salaam, Tanzania



(Credit: Eawag-Sandec)

Collection and Transport Failures



(Credit: David M. Robbins)

Terminology

- Operation: All the activities that are required to ensure that a faecal sludge treatment facility delivers treatment services as designed.
- Maintenance: All the activities that ensure long-term operation of equipment and infrastructure.

Monitoring Program

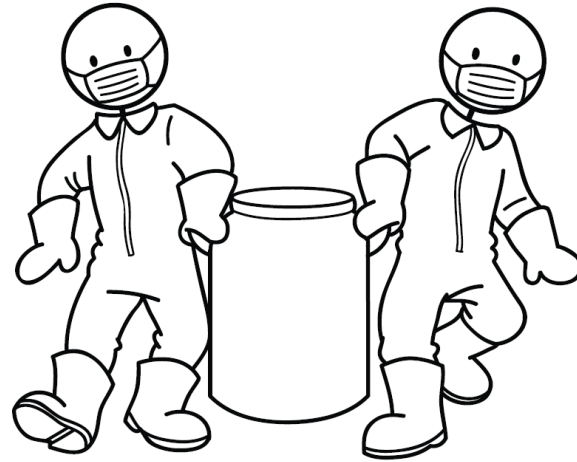
Dakar, Senegal



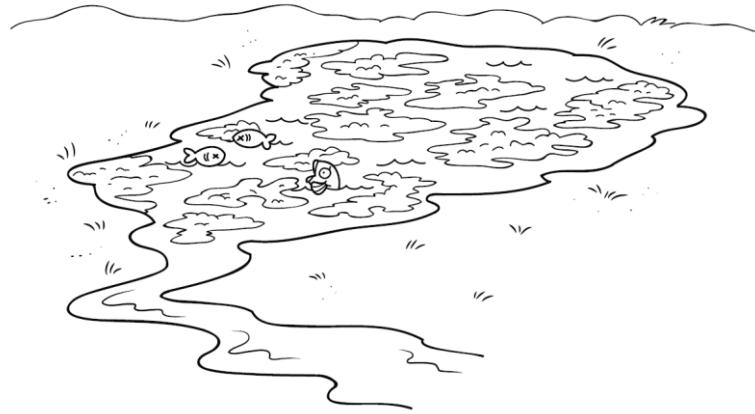
(Credit: Eawag-Sandec)

Key Treatment Parameters to Monitor

- Dewatering: Moisture and solids content
- Stabilization: Biological and chemical oxygen demand
- Nutrient management: Nutrient content
- Pathogen inactivation: Pathogen content (e.g., helminth eggs)



Credit: CAWST



Credit: CAWST

How we can support you!

Contact CAWST and Eawag-Sandec for support on using and adapting our education and training resources for your work.



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- Latest updates to this document
- Other workshop & training related resources



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