

Country Presentation-Uganada

Wastewater production and Treatment

- Wastewater in Uganda is generated from Domestic, Municipal and Industrial sectors (mainly of Domestic and Municipal nature)
- About 7.62 million m³/year of wastewater (Dominant wastewater treatment type is the primary- where effluent is temporarily held/stored in a quiescent and the remaining liquid is then subjected to Secondary Treatment- includes Facultative and Maturation ponds)
- Lastly wastewater is released into the wetland for the Tertiary treatment and finally into the lake

Major constraints to Wastewater treatment

- The plant and Technology used is very old
- The Plant has a low coverage only 10% of Kampala's Central Business District
- Connection Services are expensive not affordable by most clients
- The Wetland for Tertiary treatment is being encroached
- Only 14 towns in Uganda have access to sewer systems and produce a total of about 7.62 million m³ of wastewater though half of this is produced in Kampala

Wastewater Use/Disposal

- No formal sector irrigation using wastewater in Uganda
- On a small scale road side florists and horticultural growers buy dried wastes and mix it with black soil to improve the nutrient levels of the planting soils
- At times waste is used for landscaping for household lawns
- Currently no Irrigation Policy (in Draft)
- There is no irrigation at any level using Wastewater and all the Wastewater is discharged into the Wetland for Tertiary Treatment

The major types of trees are Guavas, Avocado, Mangoes and other fruit trees; these trees are purchased by large scale fruit producers who sell their produce to processors; acreage of approximately 200 hectares but sparsely situated within a 40km drive from this plant

The flower gardens are at a domestic level where individuals plant lawns raging from 25m² to 100

Policies and Institutional set-up for wastewater management

- The Ministry of Water and Environment (MWE) is the lead government agency of the Water Sector
- National Water and Sewerage Corporation (NWSC) undertakes sewerage services in urban centres, operation and maintenance and investment in sewerage infrastructure
- National Environment Management Authority (NEMA) is the institution responsible for regulating the use and management of Wetlands and Environment related issues
- Irrigation and Drainage is a mandate of the Ministry of Agriculture, Animal Industry and Fisheries

Research/Practice on different aspects of wastewater

- There is no known research on going on wastewater use

Status and need for the knowledge and Skills on the safe use of wastewater

- Wastewater use Policy formulation
- Safety and Health of handling Wastewater
- Irrigation using wastewater
- Research and applying the knowledge on wastewater use
- Training on wastewater treatment technologies

References

1. The Water Act – Ministry of Water and Environment 1995
2. The Water (Waste Discharge) Regulations- Ministry of Water and Environment 1998
3. The Sewerage Regulations- Ministry of Water and Environment 1999
4. The Water Supply Regulations – Ministry of Water and Environment 1999
5. <http://www.nwsc.co.ug/index09.php> Accessed on 20th September 2012