





Facilities Offered by the Pollution Research Group to Support Faecal Sludge Research

Chris Buckley Susan Mercer Santiago Septien Tina Velkushanova

Overview

- 1. Sanitation Systems
- 2. Laboratory
- 3. Mechanical
- 4. Field Testing
- 5. Systems and Prototypes
- 6. Training and Sharing
- 7. Costs
- 8. Contact Details

Sanitation Systems

- Partnership with eThekwini Water and Sanitation
 - VIP latrines
 - Urine Diversion toilets
 - Community Ablution Blocks
 - Pour-flush toilets
 - Black Soldier Flies
 - Conventional Systems
- Orientation for city leaders and officials
- Social and technical orientation
- Sampling and data gathering





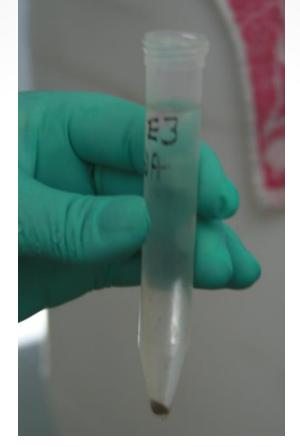


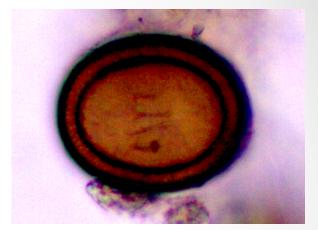


Laboratory

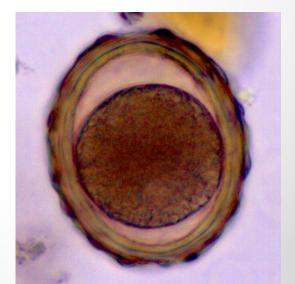
- health and safety for analysing faeces and urine
- comprehensive equipment for faecal sludge characterisation
- preparation for external specialised assays
- multiple samples and replicates
- trained technicians and researchers
 physical, chemical, microbiological, agricultural
- Standard Operating Procedures (SOPs)
- lab-scale piloting













Systems and Prototypes

- Pour-flush latrines
- pedestal / coating evaluation
- anaerobic baffled reactor
- agricultural reuse of excreta streams
- thermal processing
- anaerobic digestion



Mechanical Workshop

- equipment construction
- modification



Field testing (Newlands Mashu)

- laboratory
- pilot plants
- demonstration
- agricultural tests







10-2

- regular ou dage

Training and Sharing

- training (home or away)
- development of SOPs
- host researchers (short / long term)
- data





- 2015 2017 BMGF funding covers laboratory and staff
- consumables cost only
- own or PRG staff

More Information

PRG delegates at FSM3

other presentations and posters

http://prg.ukzn.ac.za