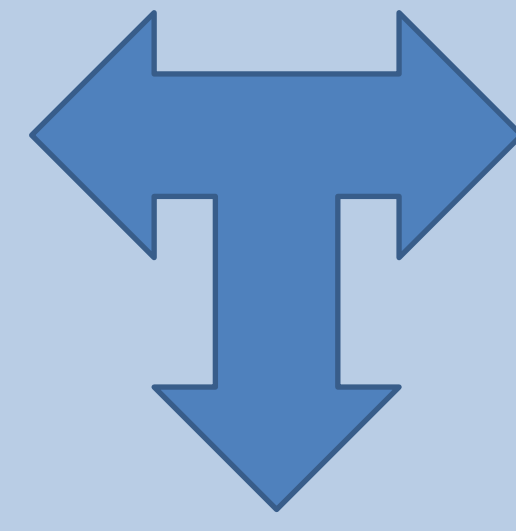


## Aim

- Faecal sludge characteristics vary between different locations and types of facilities.
- Investigation will support the design of toilet facilities, mechanical pit-emptying devices and sludge processing technologies.



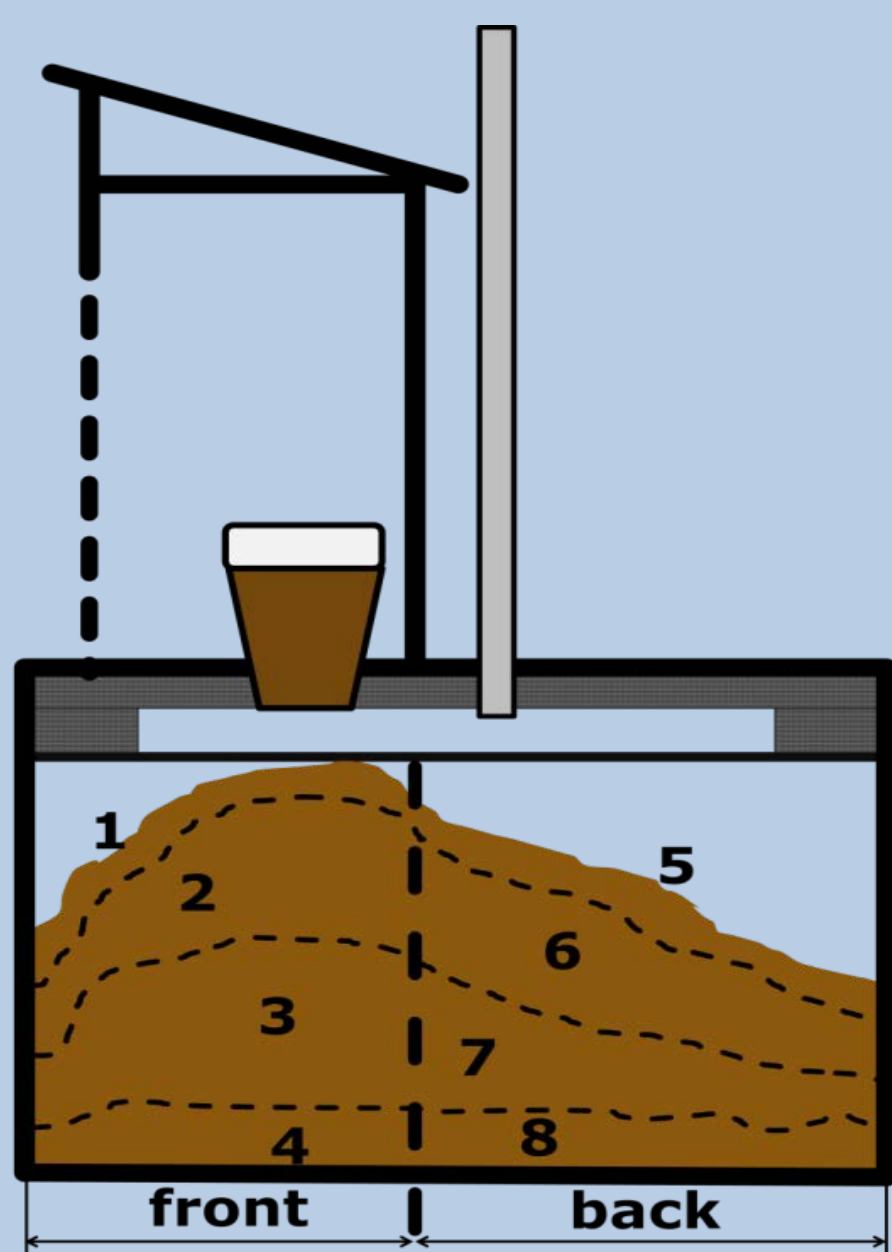
## Objectives

- Correlation between facility usage, sludge quantity and quality.
- Generate data on faecal sludges from on-site sanitation facilities.

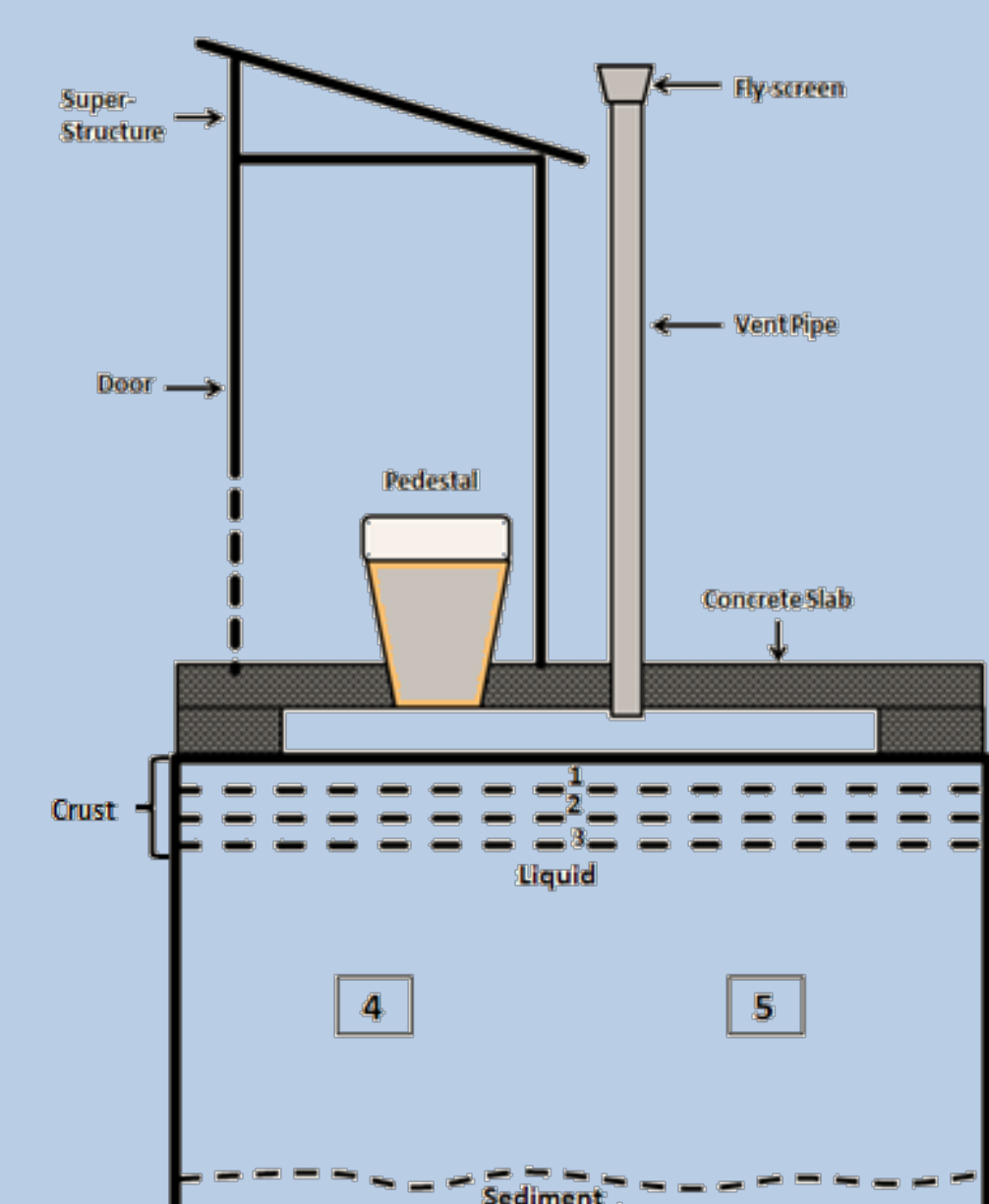
## Pit emptying and sampling



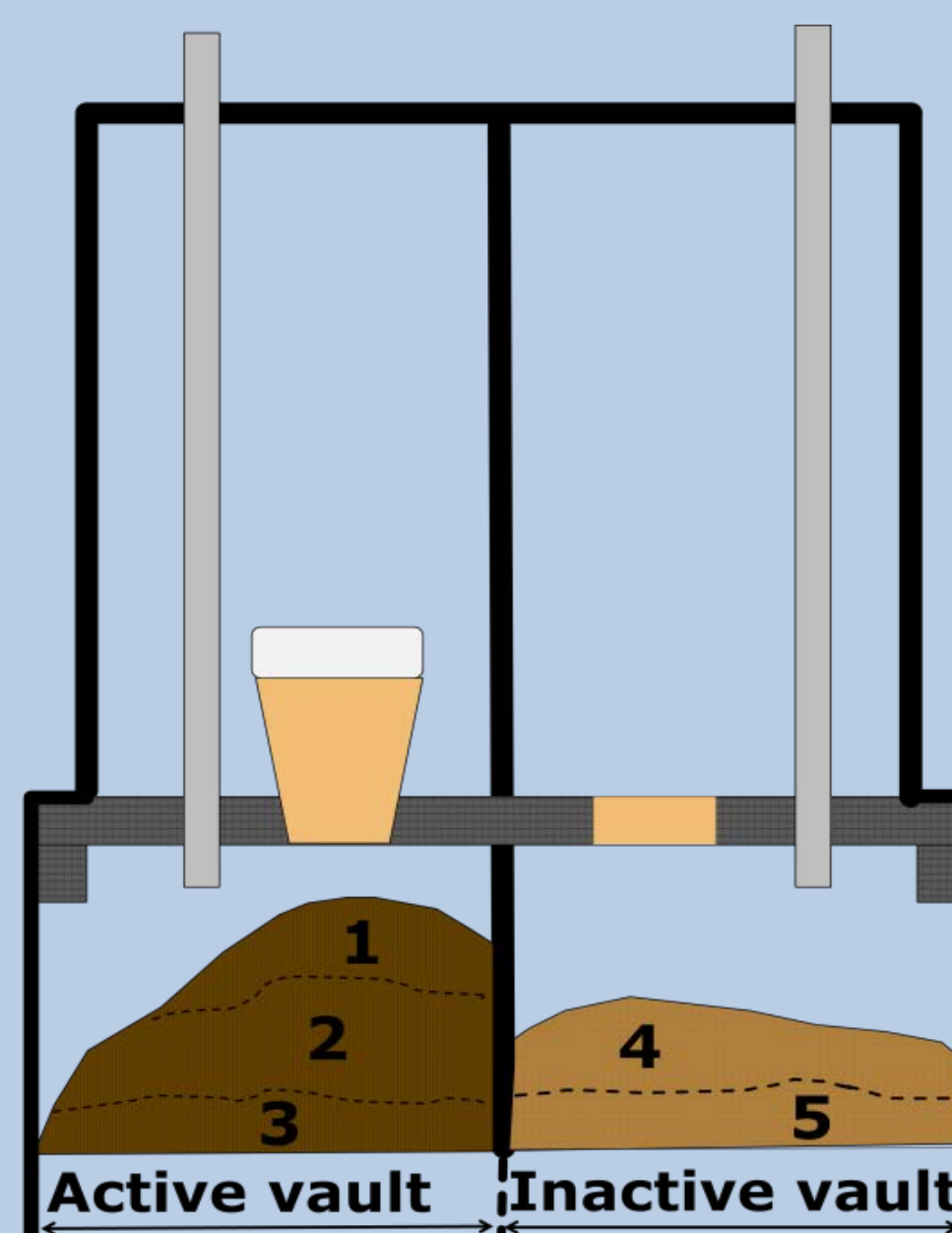
## Sampling methods



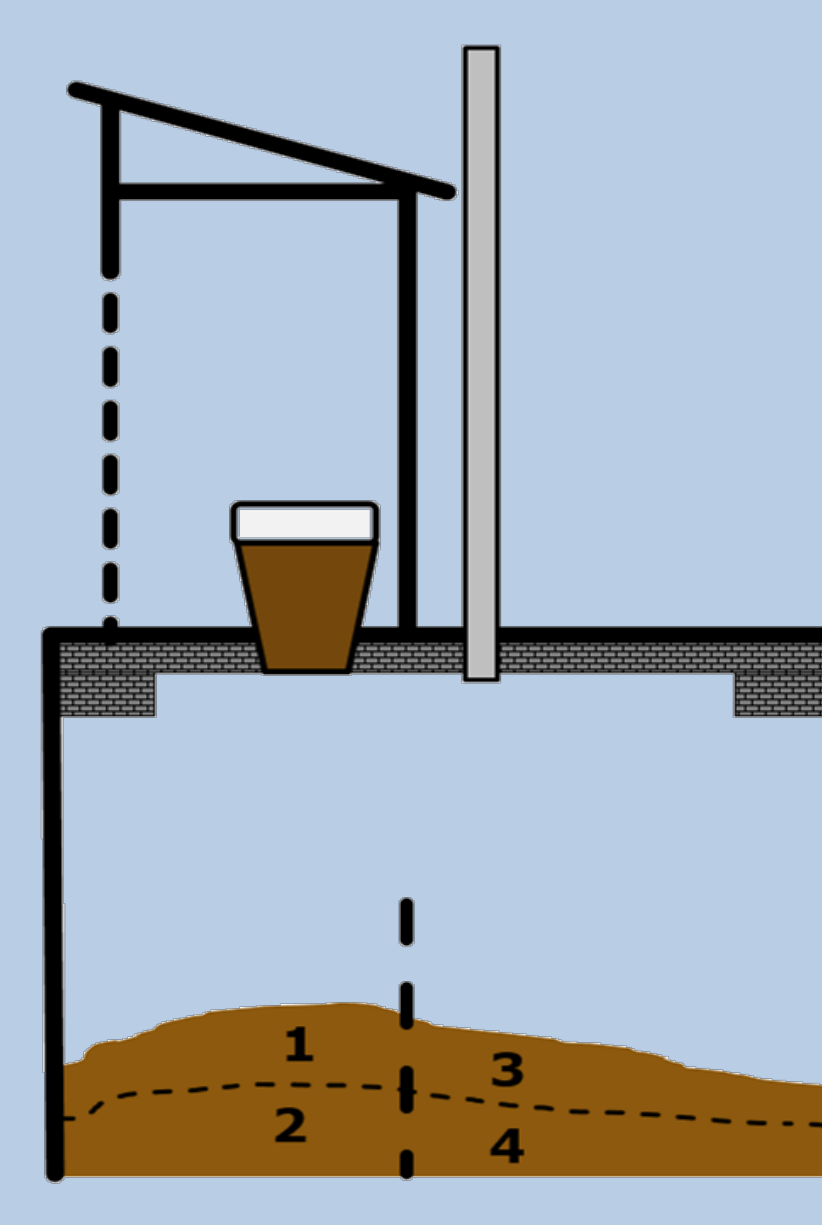
VIP dry



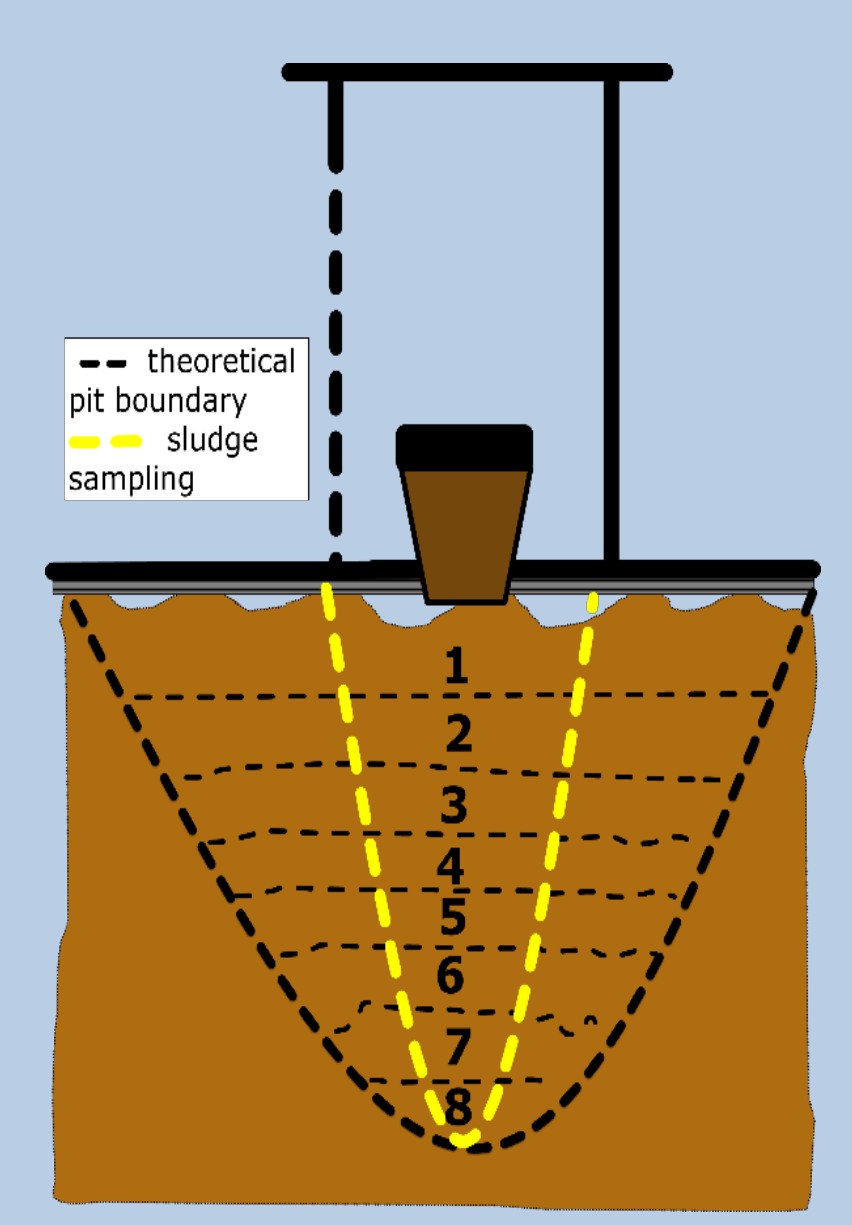
VIP wet/CAB



UDDT

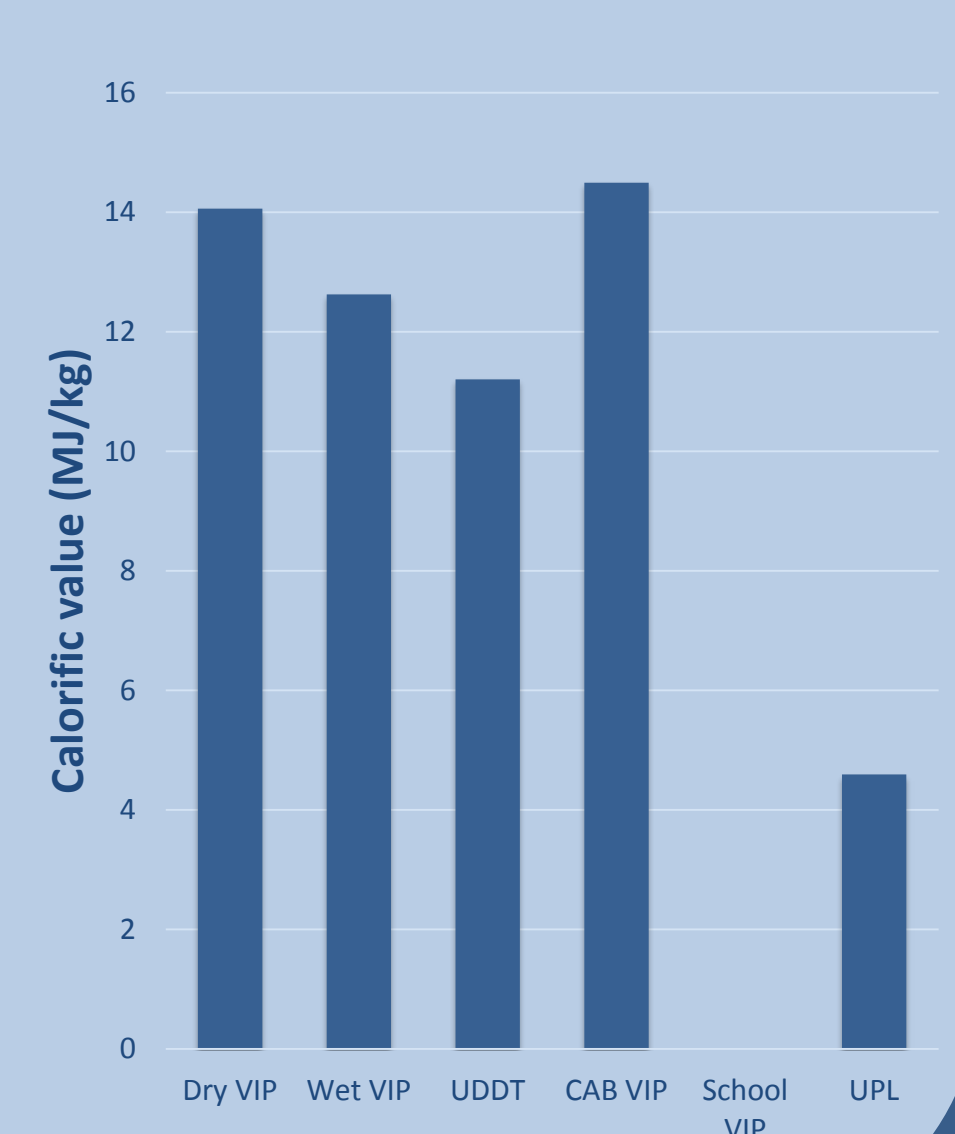
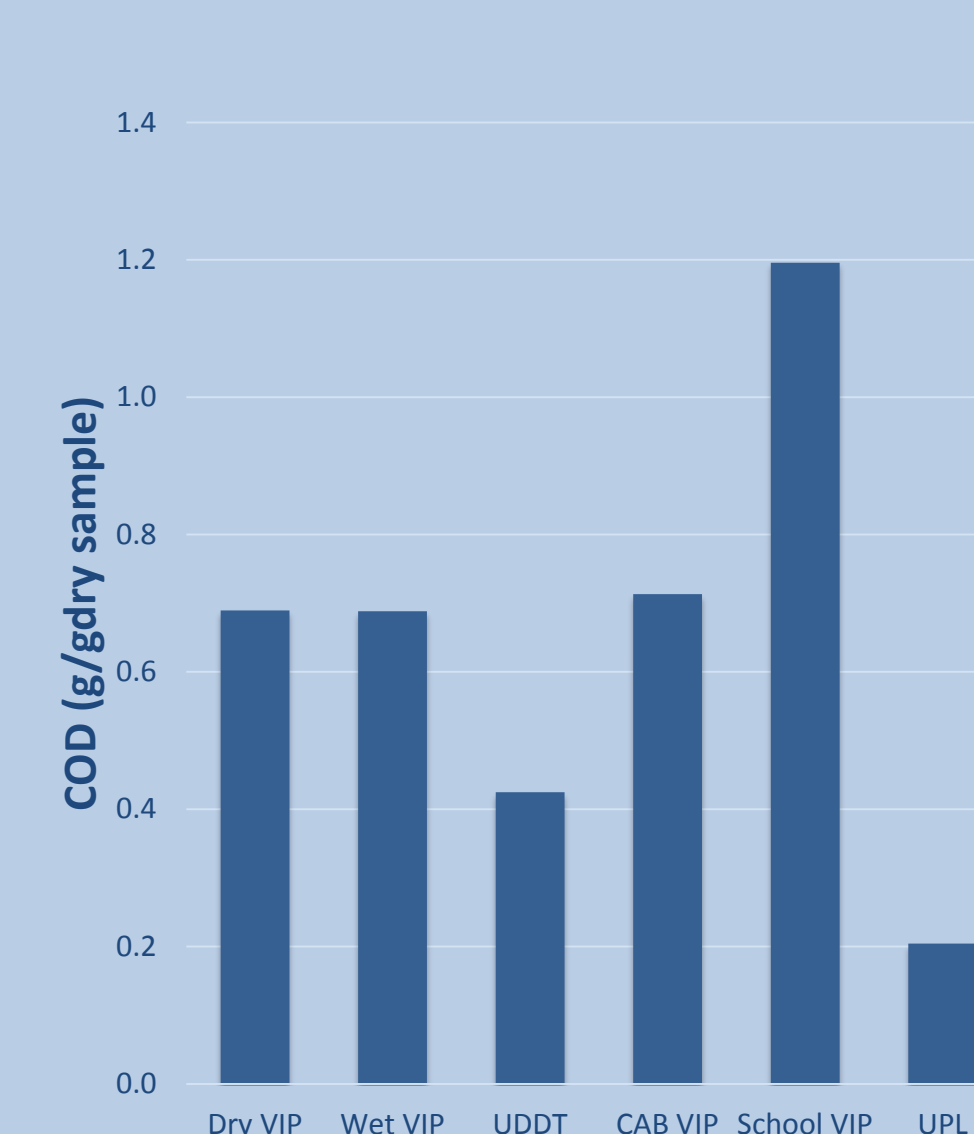
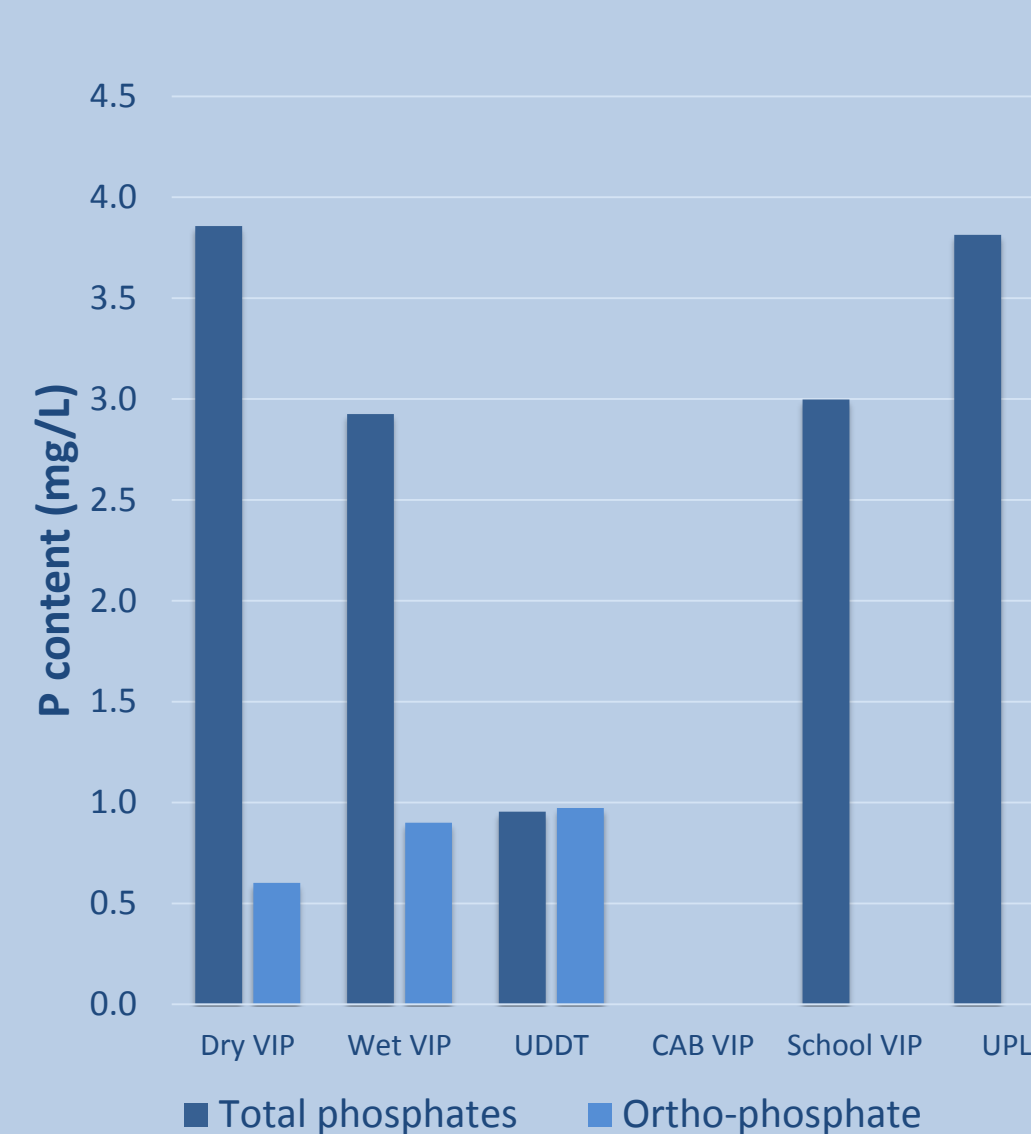
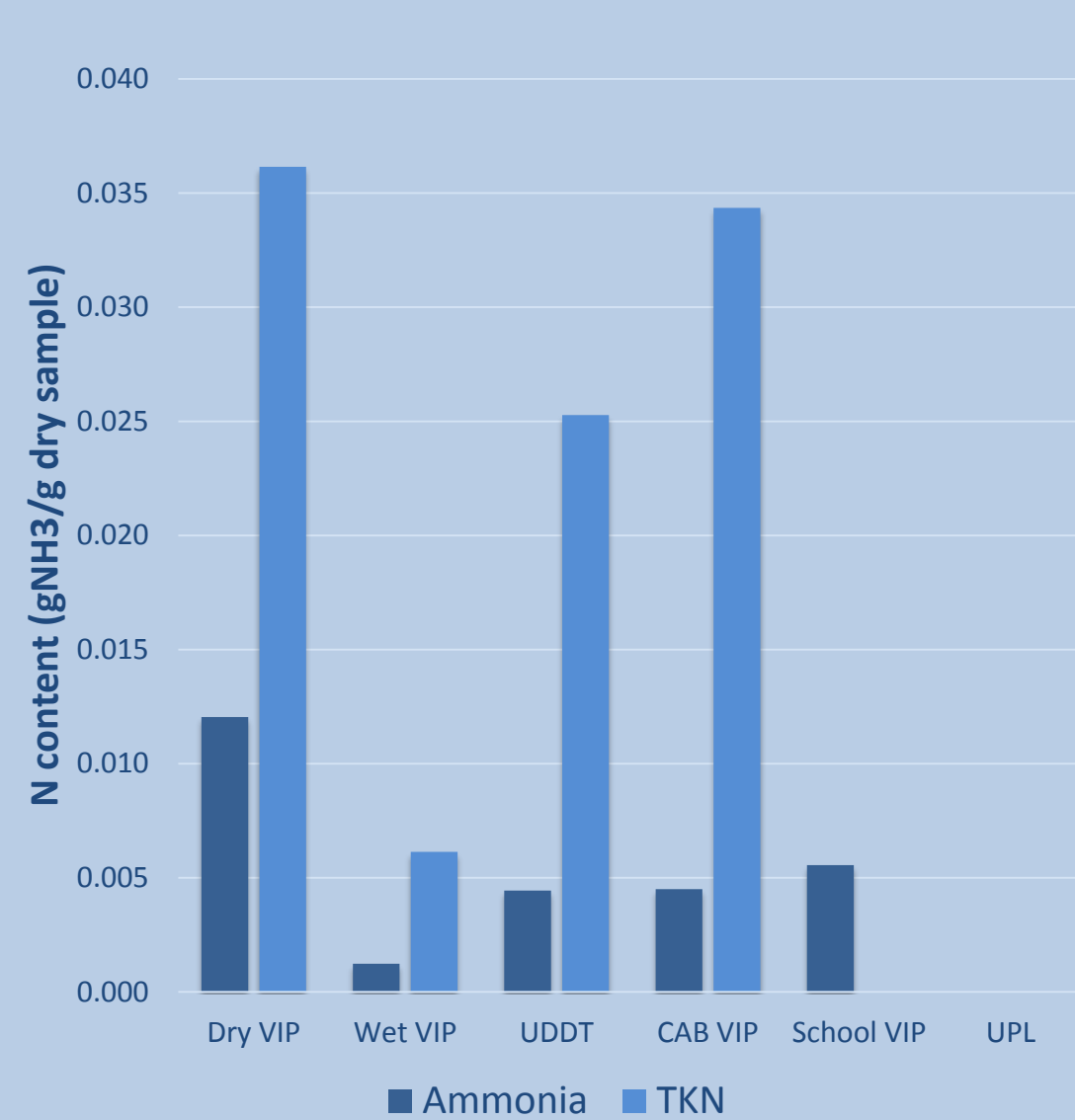
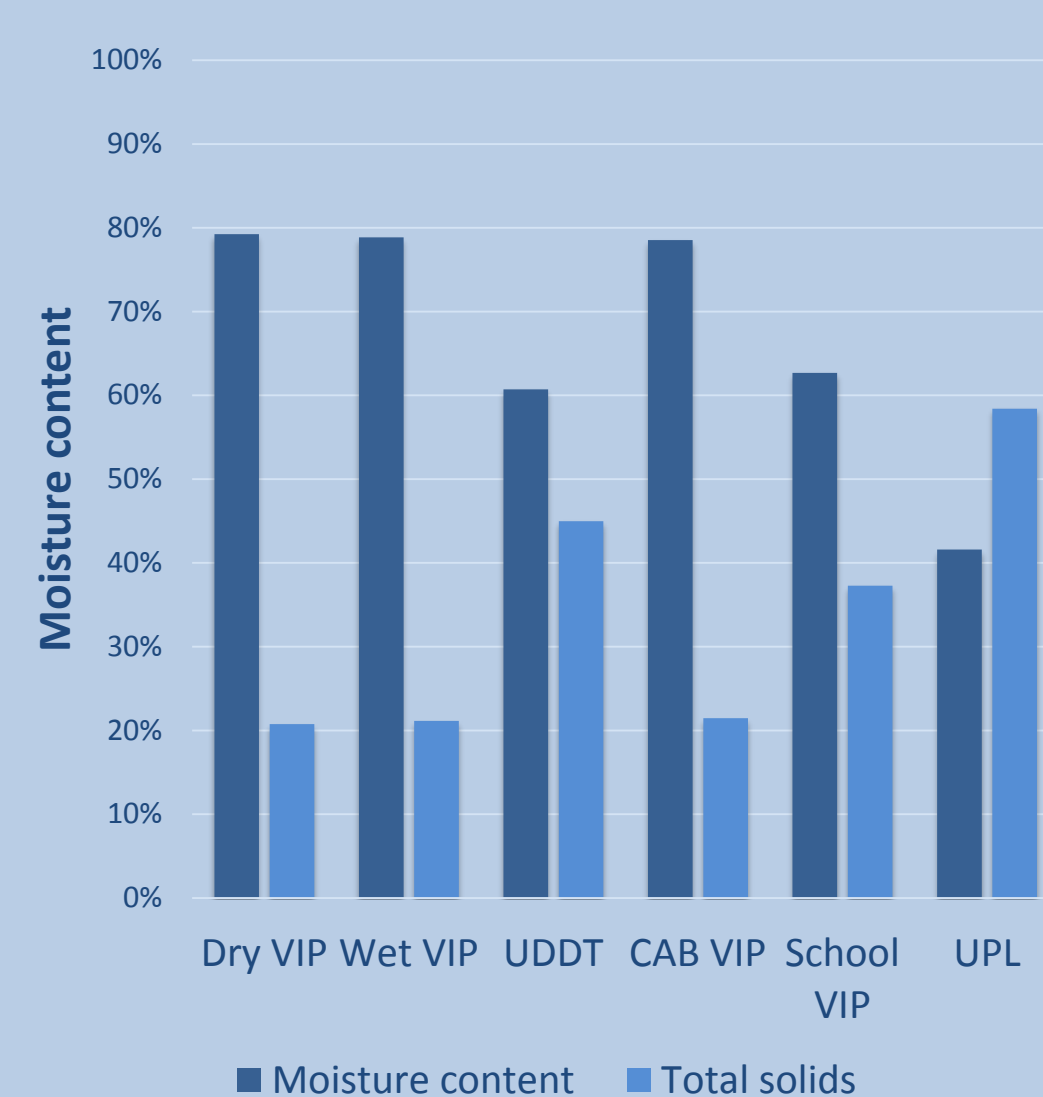


School VIP



Pits

## Results after laboratory analyses



## Summary and Conclusions

- 45 different on-site sanitation facilities in peri-urban and rural areas in Durban were emptied
- A total of 211 subsamples were selected and analysed
- Physico-chemical, thermal, mechanical and biological properties were analysed
- Variation of properties from different sludge depth in one pit or toilet were investigated and compared to other on-site sanitation facilities
- Properties of sludge tend to change with sludge depth and therefore age of the sludge