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# Pollution Research Group University of KwaZulu-Natal, Durban South Africa

# Support to Sanitation Practitioners Laboratory Analysis Request Sheet

**First edition: November 2013**

**Revised: October 2014**

**Second revision: September 2015**

**Third revision: December 2017**

# Analysis of Samples

Please use this questionnaire as a guideline for informing us of the type of sample analysis and data required.

The Pollution Research Group would like to be able to provide support to all sanitation practitioners, however our resources are limited. In order to satisfy as many people as possible it may be necessary to suggest shifts in the dates.

 Where possible, please provide an indication of your deadlines for our planning purposes, or include a draft time table of when you will need data.

A blank table is included on the last page for any additional tests that you may require which are not on our list.

## Section 1: Organisation details

|  |  |
| --- | --- |
| **Name of organisation:** |  |
| **Address:** |  |
|  |
|  |
| **Contact person:** |  |
| **Department:** |  |
| **Position held:** |  |
| **Email address:** |  |
| **Title of Project** |  |
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|  |
| **Has there been any recent outbreaks of contagious diseases (e.g. typhoid, cholera etc.). Please provide details.** |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of test** | **Number of test required per sample type** | | | | | | | | | **No. of replicates** |
| **VIP sludge (dry)** | **VIP sludge**  **(Wet)** | **UDDT sludge** | **School Toilets**  **Sludge** | **Community Ablution Blocks sludge** | **Pour flush toilet sludge** | **Fresh faeces** | **Urine** | **LaDePa Pellets** |
| ***Total COD*** |  |  |  |  |  |  |  |  |  |  |
| ***Soluble COD*** |  |  |  |  |  |  |  |  |  |  |
| ***Non – biodegradable COD*** |  |  |  |  |  |  |  |  |  |  |
| ***Biodegradable COD*** |  |  |  |  |  |  |  |  |  |  |
| ***Total solids*** |  |  |  |  |  |  |  |  |  |  |
| ***Suspended solids*** |  |  |  |  |  |  |  |  |  |  |
| ***Volatile solids*** |  |  |  |  |  |  |  |  |  |  |
| ***Moisture content*** |  |  |  |  |  |  |  |  |  |  |
| ***Ash*** |  |  |  |  |  |  |  |  |  |  |
| ***Sludge volume index*** |  |  |  |  |  |  |  |  |  |  |
| ***Nitrates*** |  |  |  |  |  |  |  |  |  |  |
| ***Volatile Fatty Acids*** |  |  |  |  |  |  |  |  |  |  |
| ***Alkalinity*** |  |  |  |  |  |  |  |  |  |  |
| ***pH*** |  |  |  |  |  |  |  |  |  |  |
| ***Ammonia*** |  |  |  |  |  |  |  |  |  |  |
| ***Sodium*** |  |  |  |  |  |  |  |  |  |  |
| ***Potassium*** |  |  |  |  |  |  |  |  |  |  |
| **Type of test** | **Number of test required per sample type** | | | | | | | | | **Due Date** |
| **VIP sludge (dry)** | **VIP sludge**  **(Wet)** | **UDDT sludge** | **School Toilets**  **Sludge** | **Community Ablution Blocks sludge** | **Pour flush toilet sludge** | **Fresh faeces** | **Urine** | **LaDePa Pellets** |
| ***TKN*** |  |  |  |  |  |  |  |  |  |  |
| ***Othophosphate (soluble and total)*** |  |  |  |  |  |  |  |  |  |  |
| ***Total phosphate*** |  |  |  |  |  |  |  |  |  |  |
| ***Heat capacity*** |  |  |  |  |  |  |  |  |  |  |
| ***Thermal conductivity*** |  |  |  |  |  |  |  |  |  |  |
| ***Calorific value*** |  |  |  |  |  |  |  |  |  |  |
| ***Density*** |  |  |  |  |  |  |  |  |  |  |
| ***Rheology properties - viscosity*** |  |  |  |  |  |  |  |  |  |  |
| ***Plastic and liquid limits*** |  |  |  |  |  |  |  |  |  |  |
| ***Drying behaviour*** |  |  |  |  |  |  |  |  |  |  |
| ***Slump tests*** |  |  |  |  |  |  |  |  |  |  |
| ***Parasites (Ascaris etc.)*** |  |  |  |  |  |  |  |  |  |  |
| ***Chlorides (Soon)*** |  |  |  |  |  |  |  |  |  |  |
| ***Heavy metals (Soon)*** |  |  |  |  |  |  |  |  |  |  |
| ***Osmotic pressure (Soon)*** |  |  |  |  |  |  |  |  |  |  |
| ***Sieve tests (soon)*** |  |  |  |  |  |  |  |  |  |  |
| ***Malvern Master Sizer (soon)*** |  |  |  |  |  |  |  |  |  |  |
| ***Anaerobic biodegradability (soon)*** |  |  |  |  |  |  |  |  |  |  |
| **Type of test** | **Number of test required per sample type** | | | | | | | | | **Due Date** |
| **VIP sludge (dry)** | **VIP sludge**  **(Wet)** | **UDDT sludge** | **School Toilets**  **Sludge** | **Community Ablution Blocks sludge** | **Pour flush toilet sludge** | **Fresh faeces** | **Urine** | **LaDePa Pellets** |
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