

# WASH Infrastructure Mapping Rumbek Center, Lakes State

## Introduction

The dynamic and multi-faceted nature of the South Sudanese displacement crisis has created significant challenges for the delivery of humanitarian aid. Accessibility issues within South Sudan have impeded a systematic understanding of WASH needs in many areas of the country. This has created difficulties in establishing a clear and unambiguous system for prioritising the delivery of aid, thereby limiting the effectiveness of humanitarian planning and limiting the potential impact of donor funding. In order to fill this information gap, REACH in partnership with Center for Emergency and Development support (CEDS) conducted a WASH infrastructure mapping exercise in Rumbek Center. Data collection took place on February 18th, 2021 and succeeded in mapping 1419 latrines and 470 waterpoints. Key findings are presented below in charts (pies & bars) and maps with figures in percentages (%) and numbers assessed enclosed in parenthesis next to each percentage value.

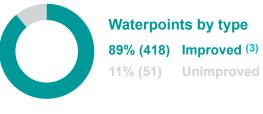
## Methodology

Using a GIS software, a polygon covering the municipal area was created and subdivided into grids squares of 250 meters of side length. Each of the resulting 321 square grids was assigned to a team of 21 enumerators to map and assess existing WASH infrastructure. GPS points were recorded also for grids where no WASH infrastructure data was identified. Enumerators were trained to use mobile applications (MapsMe and Kobo) that allowed them to georeference data collected, as well as to independently test water quality through hydrogen sulfide (H2S) tests. For grids that could not be physically assessed through direct observation (due to lack of access) participatory mapping was conducted. As a result, 69% coverage was achieved (220/321 grids). Further details on the methodology and data collection tools can be found in the Terms of Reference.

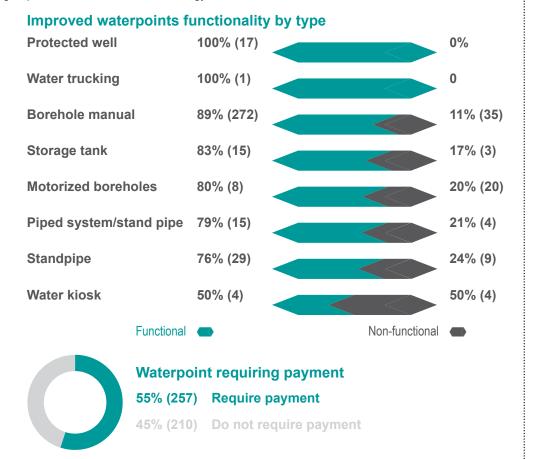
# Waterpoints Waterpoints by type Manual borehole 65% (307) Unprotected wells 11% (51) Standpipe 8% (38) Piped system/stand pipe 4% (19) Storage tank 4% (18) Protected well 4% (17)

2% (10)

2% (8)







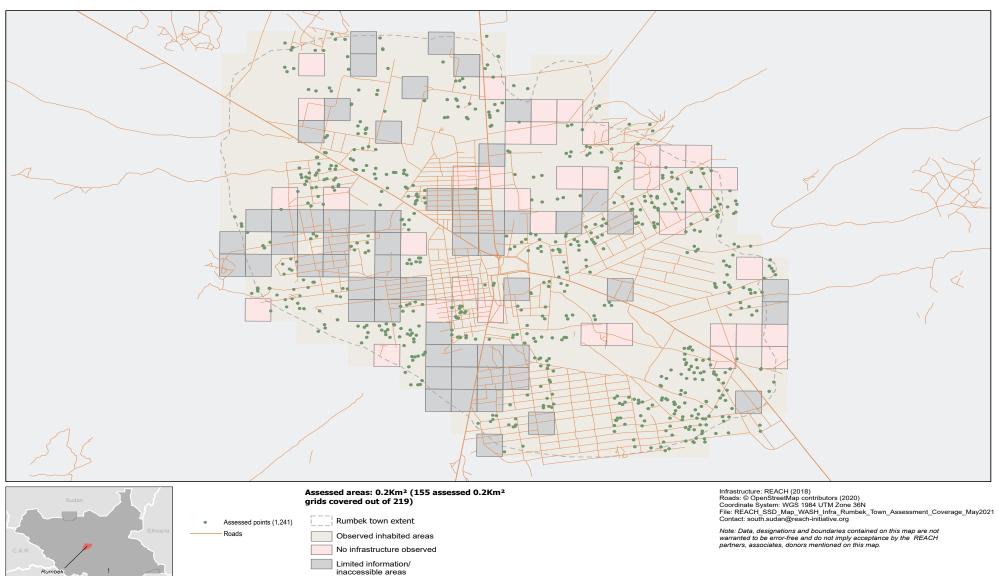


**Motorized boreholes** 

Water kiosks



# **Rumbek Center Assessment Coverage Map**

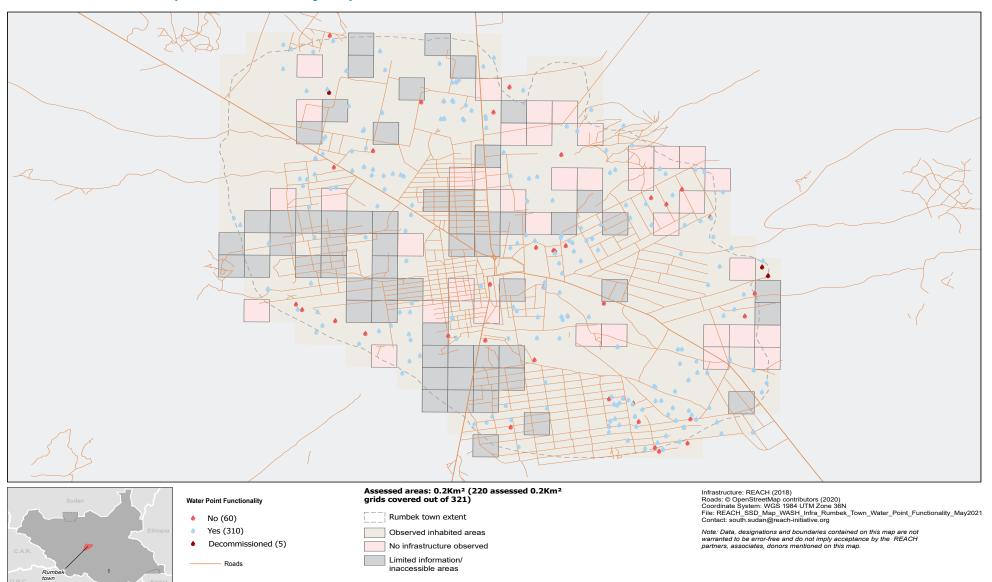








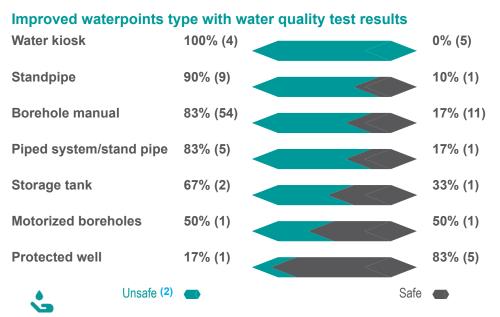
## **Rumbek Center Waterpoints functionality Map**

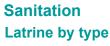








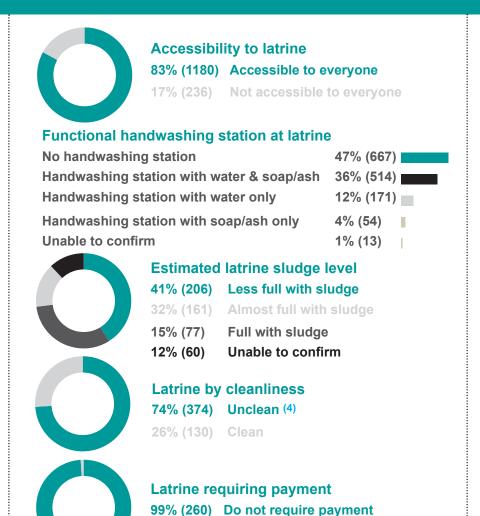




Family latrine (6) 82% (1157)

Community/institutional latrine (5) 11% (156) 
Shared latrine (7) 7% (104)





Require payment

1% (2)

### ootnotes

- 1. () numbers in parenthesis indicate number of facilities assessed
- 2. A water point is unsafe to drink when it is contaminated by faecal matter (e.g. H2S test result turn black) and a water point is safe to drink when it is free from faecal contamination (e.g. H2S test result do not turn black) (WHO,2017)
- 3. Improved water source is the water source is the water source that, by its nature of its design and construction is likely to be contaminated by faecal matter (e.g. unprotected well, unprotected well, unprotected springs, unequipped borehole etc) (JMP,2020)
- 4. A latrine was considered unclean when faeces were found on it(JMP,2020)
- 5. A communal/institutional latrine refers to latrines found in public areas such as NGOs compounds, schools, churches/mosques etc. (JMP.2020)
- 6. A family latrines refer to latrines used by a particular household with full latrine ownership, construction and maintenance (JMP,2020)
- 7. Shared latrines refer to those used by a number of households, who are all responsible for care and maintenance (JMP,2020)





