Package: handpumpstatusdata (via r-universe)

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Title Chiradzulu Handpump Functionality Verification Survey

Version 1.0.1

Description This dataset contains detailed field survey records of borehole and handpump functionality verification exercises conducted in Chiradzulu District, Malawi in February 2020.

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`handpumpstatusdata` *Chiradzulu Handpump Functionality Verification Survey*

Description

This dataset contains detailed field survey records of borehole and handpump functionality verification exercises conducted in Chiradzulu District, Malawi in February 2020. Data was collected by BASEflow using the mWater mobile data collection platform. Each record represents a single site visit to a water point, capturing GPS coordinates, technical assessments, water availability, environmental conditions, and maintenance history.

Usage

```
handpumpstatusdata
```

Format

A tibble with 57 rows and 46 variables

visit_date Date when the water point was visited for assessment.

waterpoint_name Name or identifier of the water point being assessed.

waterpoint_type Type of water point (e.g., borehole, well, tap).

latitude Latitude coordinate of the water point.

longitude Longitude coordinate of the water point.

govt_staff_available Whether a government water sector staff member was present during the assessment.

committee_permission Whether permission from the Water Point or Camp Committee was obtained before the assessment.

functionality_survey Whether a water point functionality survey was conducted.

status_changed Whether the water points functionality status has changed since the previous survey/mapping.

photo_waterpoint Photo file or reference showing the water point.

water_available Whether water was available from the water point at the time of visit.

latrines_within_50m Whether there are latrines within 50 meters of the water point.

cemetery_within_50m Whether there is a cemetery within 50 meters of the water point.

waste_within_50m Whether there are waste dumps within 50 meters of the water point.

river_within_50m Whether there is a river within 50 meters of the water point.

lake_within_50m Whether there is a lake or large pond within 50 meters of the water point.

flood_area Whether the water point is located in a known flood-prone area.

difficult_access Whether accessing the water point is challenging.

flowrate_possible Whether a flow rate test could be conducted at the water point.

flowrate_seconds Time (in seconds) taken to fill a 20-liter bucket during the flow rate test.

strokes_to_discharge Number of pump strokes needed before water starts flowing from the spout.

water_available_today Whether water was available from the water point on the day of the visit.

reason_no_water Reason water was not available during the visit.

seasonal_variation Whether seasonal changes affect water availability from this source.

when_no_water Specific times of the year when water is unavailable from the source.

pumphead_disassemble Whether it was possible to disassemble the pump head during inspection.

reason_no_disassemble Reason the pump head could not be disassembled.

reason_no_disassemble_other Other specified reason why the pump head could not be disassembled.

install_date Date when the borehole or water point was installed.

borehole_age Approximate age of the borehole in years.

pump_manufacturer Manufacturer of the installed pump.

pump_manufacturer_other Other specified manufacturer if not listed in main options.

drilling_contractor Contractor or company that drilled the borehole.

install_depth Depth (in meters) of the borehole installation.

static_water_level Static water level measurement (depth to water before pumping).

pumping_test_info Whether original pumping test results are available.

drilling_report_info Whether the original drilling report is available.

water_quality_info Whether the original water quality test results are available.

repaired_before Whether the borehole has been repaired multiple times in the past.

repair_attempts Number of times the borehole has been repaired.

borehole_issues Main issues affecting the boreholes performance.

borehole_issues_other Other specified issues affecting the borehole.

operational_feel General operational feel of the pump during use.

operational_feel_other Other specified operational feel not covered in main categories.

parts_for_repair Afridev pump parts that may need repair or replacement.

photo_parts Photo file or reference of the Afridev pump parts inspected.

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