

Description of Anthropogenic Components for Soil Mapping – A Glance to the German Guidelines for Soil Mapping, version 2022 (KA6)

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Abstract (max. 400 words)

In the 1980ies and 1990ies, the german working group Urban Soils (WG US) played an essentially role in the research project on soil mapping in urban areas (Makowsky et al. 2019). The mapping experiences were compiled in the „Recommendations for Soil Mapping in urban, commercial, industrial and mining areas (Urban Soils)“ published by WG US (AK Stadtböden 1997). As a consequence, the main aspects were integrated in the currently used German Guidelines for Soil Mapping (KA) (AG Boden 2005). But meanwhile, it turned out that additional and conceptual adaptations are demanded, e.g. a concise key to describe anthropogenic components (artefacts) and parent materials. Since 2016, the WG US together with the working group for Soil Taxonomy developed a re-structured and full key with three levels in accuracy. Basically, the key offers the tool to identify and describe anthropogenic components in detail on-site (third level), e.g. bricks, blast furnace slag, dredged sludge. If precise description on this detailed third level can not be performed, the key offers to use more abstract levels of description, e.g. “construction rubble” (first level) instead of “bricks” or “iron works slag” (second level) instead of “blast furnace slag”. Thus, the key is appropriate for the individual experience of urban soil mapping in the field. The key will be part of the upcoming version of KA, which is expected to be published in 2022.

References

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