**PROMOTE: PROtecting water resources from MObile TracE chemicals**

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PROMOTE is a recently launched research project under the European Union Joint Programming Initiative “Water Challenges for a Changing World” (Water JPI). PROMOTE is one of seven approved projects following the 2013 Water JPI Pilot Call on emerging contaminants. Seven partners and seven associated partners from five European countries form the consortium. The poster outlines the hypothesis, main aim, objectives, work plan and expected outcomes of PROMOTE.

PROMOTE focuses on persistent, mobile organic contaminants (PMOC). PMOC are highly polar compounds and as such are likely to occur in the water cycle and in raw waters used for drinking water production. At the same time their physicochemical properties make them very challenging to analyze. Consequently, analytical methods are insufficiently developed and little is known upon their occurrence in environmental and drinking waters. PROMOTE follows two strategies to identify and monitor PMOC: (a) developing and applying analytical methods for screening of water samples for PMOC and (b) selection and prioritization of candidate substances based on REACH and other data (related to persistence, mobility and use) along with developing analytical methods for their quantitative analysis.

The developed analytical methods will be applied to representative samples from five European river basins, to WWTP effluents, to groundwater samples and to raw waters used for drinking water production. For PMOC occurring in raw waters or likely to occur in such waters PROMOTE will study the potential of different drinking water treatment strategies to remove PMOC. PMOC will be prioritized in terms of their emission sources and removal options. Adequate mitigation methods at reasonable effort will be proposed. This will include improved treatment processes for compounds emitted only locally, changes in the use profile, and regulation within the REACH legislation. Widely distributed PMOC that are associated with an environmental or health concern may also be candidates for the watch list of the EU Water Framework Directive.

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