



Project Number

WRF-06-004

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Identifying Health Effects Concerns of the Water Reuse Industry and Prioritizing Research Needs for Nomination of Chemicals for Research to Appropriate National and International Agencies

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Objectives:

The goal of this project was to examine information on the composition of highly processed wastewaters, apply screening methods to identify residual chemicals that are present at sufficient concentrations that might be a health concern, determine what types of studies would be needed to provide an adequate basis for risk assessment, and develop several nomination packages for federal agencies research programs to encourage them to carry out studies to provide important information that could be used to more precisely assess the potential for trace contaminants in recycled water to be a health concern.

Summary of Finding and Recommendations

Assessment dossiers were prepared for 22 categories of substances and risk assessment issues and reviewed by an Expert Stakeholder group. A consensus was achieved on a shorter list of highest priority candidates and detailed chemical testing nominations dossiers were prepared. Based upon the chemical detections, toxicology screening and fate chemistry, 10 technical information needs and testing nominations were provided to the National Toxicology Testing Program and several other federal agencies to provide information that would permit more complete risk assessments for wastewater derived chemicals including disinfection by-products (DBPs).