

## عنوان مقاله:

The role of constructed wetlands in wastewater treatment

## محل انتشار:

چهارمین همایش و نمایشگاه تخصصی مهندسی محیط زیست (سال: 1389)

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## خلاصه مقاله:

Constructed treatment wetlands are manmade wetlands developed and managed to treat contaminants in wastewater that flows through them. Constructed treatment wetlands are engineered systems that have been designed and constructed to utilize the natural functions of wetland vegetation, soils, and their microbial populations to treat contaminants in surface water, groundwater, or waste streams. Successful applications of these systems for the treatment of municipal wastewater have led to the exploration of the technology for the treatment of wastewater from several sources, including industrial, agricultural, storm water, acid mine drainage, landfill leachate, urban, airport runoff, gully pot liquor, etc. The two main types of constructed wetlands are surface flow (SF) and subsurface flow (SSF). Constructed wetlands also have significantly lower total lifetime costs and often lower capital costs than conventional treatment systems and can be operated using less electricity and less labor.

## کلمات کلیدی:

Constructed wetland, treatment, wastewater, remove, contaminant

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