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## Phytoremediation in reed plants treat and clean up polluted environment by petroleum produced water

By Ochan Stephen

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Abstract. Phytoremediation is the use of plants and its associated microorganisms to achieve the conditions necessary to facilitate the breakdown of contaminants and clean-up of the polluted environment. Phytoremediation technology is viewed as the simplest way of handling variety of contaminants in many sectors of oil industry. The community of microorganisms in the rhizosphere has been shown to be involved in degradation of numerous contaminants, including pesticides, polynuclear aromatic hydrocarbons, petroleum compounds, volatile organic chemicals, and in organics. Also, plants can degrade contaminants during plant metabolic activities; for instance, 2,4,6-trinitrotoluene has been shown to be degraded by plant enzymes. Plants can use contaminants as nutrients; nitrate contamination of ground water can serve as a nitrogen source for plants. This involves the achieving condition of ground water, waste oil and produced water from oil facilities. Phytoremediation is recommended because of its establishment at low -cost and with flexibility in wide aspect of...



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