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Abstract: The application of aerobic granular sludge (AGS) is a promising biological method for wastewater treatment. In the present study, the AGS method was used for the treatment of petroleum wastewater. The granulation process and organic/nitrogen compound removal efficiencies were determined and correlated with the microbiological communities.

Granulation of the aerobic sludge occurred after 35 days of operation. The compacted granules had a diameter of 0.46-0.9 mm. Extracellular polymeric substances (EPS) contents

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