

Contamination effect of mud from oil drilling on soil characteristtics physical and chemical

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خلاصه مقاله:

Soil and water contaminated by industrial, urban, and agriculture pollution. TotalPetroleum hydrocarbons (TPHs) from exploration drilling fluid have destructive and irreversible effects on the environment and ecosystems in the explorationregions. This study examined the impact of drilling mud pollution in physical andchemical properties of soil at four sites with variety of operational areas in South-West of Iran. Several soil samples from the exploration oil drilling area were collected and the physical and chemical properties of them were analyzed. In addition the noninfected soil smeared with o, Ya, ao, Ya and look percentageof drilling mud as well. The statistical results show that concentrations of sodiumand acidity of the soil contamination by oil-based drilling mud at Ya and 100% at 1% level Duncan test are significant. This appears to be due to the high soil acidityand the amount of oil based drilling mud in containing sodium bentonite. Also due to the presence of organic matter in oil based drilling mud and adhesion of .soilparticles with aggregates, bulk density increased

کلمات کلیدی:

Soil physical properties, chemical properties of soil, oil based drilling mud, petroleumhydrocarbons

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