

عنوان مقاله:

Evaluation and Dtermination of Heavy Metals in Edible Vegetables and Soil

محل انتشار:

ششمین همایش ملی و نمایشگاه تخصصی مهندسی محیط زیست (سال: 1391)

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خلاصه مقاله:

In this study, soil and edible vegetables from south of share-ray regions were sampled in summer 2011 from farms for which well water was used. For this reason, heavy metals in ten points of agricultural soil and leafy edible vegetables conclude, Persian leek, anet, parsley, spinach and radish were evaluated. After sample preparation with micro-wave digestion technique, concentration of toxic metals such as, Vanadium (V), Cobalt (Co), Nickel (Ni), Arsenic (As) and Mercury (Hg) was determined by atomic absorption spectrometry (AAS) in Iranian Petroleum Industry Health Research Institute (IPIHR). According to the vegetables analysis the mean concentration of V, Ni , Co, As and Hg were $0.093 \pm 0.005 \mu\text{g g}^{-1}$, $0.775 \pm 0.043 \mu\text{g g}^{-1}$, $0.073 \pm 0.004 \mu\text{g g}^{-1}$, $0.508 \pm 0.028 \mu\text{g g}^{-1}$ and $0.027 \pm 0.002 \mu\text{g g}^{-1}$ respectively. Ni, Co and V in edible vegetables have high concentration while V, Co, Ni, As and Hg have low concentration in agricultural soil as compared to World Health Organization (WHO)

کلمات کلیدی:

Heavy Metals, Environmental Pollution, Edible Vegetables, Soil, Atomic Absorption Spectrometry

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