Evaluation of the amount of Ar, Hg, Zn and Cu in aquatic plant, Chara sp., Phragmites australis, Typha latifolia and Scirpus bulrush in Dez River

Mansoreh Ghaeni1*, Laleh Roomiani2 Laila Safarkhanlo3
1, 2. Department of Fisheries, Agriculture Faculty, Ahvaz Branch, Islamic Azad University, Ahvaz, Iran. 3. Ph.D. of Fisheries, Tehran, Iran

*Corresponding author mansoreh.ghaeni@gmail.com

Received date: 2014.09.13
Reception date: 2015.01.05

Abstract
In this study, heavy metals concentration of arsenic, mercury, zinc, and copper were measured and studied in four native species of Dezful’s aquatic plants includes of efficient Chara sp., Reed Phragmites australis, Typha latifolia and Scirpus bulrush in spring of 2014. After sampling from south of Dez river, samples were transported to the laboratory and dried by autoclave in standard methods. Heavy metals have been measured in root, leaf and stem by atomic absorption. The results present that root of aquatic plant has the most accumulation of heavy metals. Zinc was the highest amount in aquatic plant. Typha latifolia showed the most zinc in this study.

Keyword: arsenic, mercury, zinc, copper, Chara sp., Phragmites australis, Typha latifolia, Scirpus bulrush