

عنوان مقاله:

(Evaluation of drinking water quality indices (case study: Bushehr province, Iran

محل انتشار:

مجله مدیریت و مهندسی بهداشت محیط, دوره 4, شماره 2 (سال: 1396)

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خلاصه مقاله:

Background: Internal corrosion and the formation of scale in water distribution pipes are the most important problems for an urban water distribution system. Physical, chemical, or biological factors can lead to these two processes. Internal corrosion and scale formation can impact health, economy, and aesthetics. This study assessed the physicochemical quality parameters and evaluated the potential for corrosion and scale formation in drinking water at the distribution systems of 5 selected cities in Bushehr province (Kangan, Dashtestan, Dashti, Bushehr, and Ganaveh) from 2009-2012. Methods: This study was carried out based on laboratory data collected from monthly samplings of tap water in the Water and Wastewater Company of Bushehr province during the years 2009-2012. Internal corrosion and scale formation rates were calculated using the Ryznar, Langelier, Aggressive, and Puckorius indices. Results: The results of the Ryznar, Puckorius, Aggressive and Langelier indices indicated that the drinking water in the 5 selected cities of Bushehr province was corrosive. Moreover, the majority of parameters used to determine water quality exceeded Iran's national standards. Conclusion: It is concluded that there is a problem of water corrosion and scaling in drinking water of distribution systems in selected cities.

کلمات کلیدی:

Bushehr, Water corrosiveness, Scale formation, Saturation index

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