

# International Conference on the Management of Naturally Occurring Radioactive Materials (NORM) in Industry

VIRTUAL EVENT

International Conference on

**Management of Naturally Occurring Radioactive Material (NORM) in Industry**

19–30 October 2020

#NORM2020



Contribution ID: 100

Type: Poster

## NORM waste in the oil and gas industry in Iraq

Naturally occurring radioactive material (NORM) accumulated in gas and oil production systems in the form of scale and sludge deposit during the production process causes the potential radiation risk to workers, the general public and the environment if appropriate measures are not taken. The radionuclides identified in gas and oil streams belong to the decay chains of the naturally occurring primordial radionuclides U-238 and Th-232. In this study, we discussed the information on the NORM waste in the oil and gas industry in the Basrah oil company. Radiological measurements for several samples of NORM waste from Basrah oil Company by using HPGe detector, we found that the radioactivity concentration of radium-226 in the samples is the highest compared to the rest of the other radionuclides that have been detected, including (Pb-212, Pb-214, Bi-214, Ac-228, K-40). This is fully consistent with the literature and publications of the IAEA.

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**Session Classification:** Session VI - Solutions for Residue and Waste Management

**Track Classification:** NORM Residue and Waste Management