

MONITORING THE QUALITY OF WASTES FROM TECHNOLOGICAL PROCESS

Goal of the project

The goal of the project is to monitoring the quality of waste and sludge from technological process.

Short description of the project

During the project various parameters of wastes and mud are periodical analyzed from samples collected by the beneficiary. The parameters analyzed and the time for the samples collections are commonly agreed by the beneficiary and by the execution team. The analysis of the main parameters for the monitoring the quality of waste are required for their storage according to law.

Project implemented by

Faculty of Industrial Chemistry and Environmental Engineering.
Department of Applied Chemistry and Engineering of Inorganic Compounds and Environmental.

Implementation period

October 3, 2016 until October 2, 2017

Main activities

The main activities of the project are:

- analysis of volatile organic compounds (COV) from solid and liquid waste.
- leaching tests for sludge to be placed in a class of waste.
- analysis of the following parameters: Cr^{3+} , Cu^{2+} , Ni^{2+} , Cd^{2+} , Pb^{2+} , Zn^{2+} , pH and humidity from sludge.
- the main parameter are analyzed once a month in according to the project plan.

Results

1. The volatile organic compounds (VOC) from waste were analyzed.
2. The concentration of heavy metals in sludge from the process was determined.
3. Sludge leaching tests they were made.

Applicability and transferability of the results

- Improved university–industry relationships.
- Updating curricula in accordance with the economic realities of the local area.
- The results are consistent with the legislative framework in force.
- Adoption by the university of new mechanisms and management techniques resulted from the project activities.

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Research Centre

Research Center of Environmental Sciences and Engineering

Research team

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