

Deliverable B1-1

Technical report with characterization of PRS (PRS1 and PRS2)

December 2018

This Deliverable constitutes product of the implementation Action B1 Collection of oil wastes and preparation of stabilizers.

Two grades of Petroleum Refinery Sludges are selected for treatment with the proposed technique in the frame of the current project. Both sludges constitute wastes of the refining process of MOTOROIL.

A wide range of characterization techniques such as total petroleum hydrocarbons content, volatile organic compounds, phenols content, polynuclear aromatic hydrocarbons content, heavy metals and trace elements content, standard leachability/extractability tests, total solids, volatile solids, and fixed solids have been applied to determine both chemical and physicochemical properties of the sludges.

The determination of the sludges composition is vital prior to any other action since it constitutes a key factor for the design of the stabilization experimental campaigns.

Moreover, the aforementioned characterization outcomes are evaluated and used for the classification of the Oil Sludges under the European Waste Catalog and their characterization according to the hazardous properties of the wastes.