

Deliverable B2-2

The stabilization process and the Engineered Soil production flowsheet

December 2018

This Deliverable constitutes product of the implementation Action B.2 Lab-scale neutralization/stabilization experiments.

After the determination of the sorbent composition and stabilization technique, a flowsheet is designed that describes the optimum process and the condition specifications for the PRS stabilization and Engineered Soil production in terms of technical feasibility and efficiency.

The basic processing steps are introduced and the key elements that compose the process flow diagram are presented in detail. The unit's productivity data are also displayed.

The characteristics of raw materials, intermediate and final products are discussed. The physical and chemical properties are examined, and the final product is classified according to AASHTO system.

The financial pre-feasibility of Engineered soil production per unit mass of PRS is also studied.