

# FABRICATED SOILS FOR LANDSCAPE RESTORATION<sup>1</sup>

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**Abstract:** Fabricated Soil is a complex of components, which may substitute for topsoil on areas free from ground cover and plant communities. Using fabricated soil it is possible to enhance the process of landscape creation. The main component of the fabricated soil is the aluminum-silicate matrix that might be a crystal basis for the organic polymers (humus) formation. The aluminosilicate matrix and humus form the soil micelle - the primary unit of any soil complex. Humus formation is a process based on carbon-nitrogen interaction. Sources of carbon can be materials rich in easily composted products like cellulose and polyphenols (plant leaves) or aged lignin polymers (saw dust from different woody plants). The pathways of carbon-nitrogen complexes are discussed. Properties of the fabricated soil components were tested by enhanced bio-tests and plant models.

Additional Key Words: fabricated soil, soils, reclamation, landscape creation

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