

Interactive comment on “Revegetation in abandoned quarries with landfill stabilized waste and gravels: water dynamics and plant growth – a case study” by Cheng-liang Zhang et al.

Anonymous Referee #1

Received and published: 28 August 2017

The article is very interesting and discuss a very important and updated issue on the management of abandoned quarries and its environmental rehabilitation. This paper presents the results of an applied research, showing important findings that may help researchers to identify optimal techniques to restore areas with high environmental liabilities. The methodologies used in this research are adequate and are well explained. The theoretical framework is based on world class references and complemented with several updated references. However, I think it could be improved (runoff and erosion observed). The text is clear and, properly drafted. However, I found some minor errors which can be corrected. It would be interesting to have a map with the localization of the study area, as well as with the physical conditions of the area where the monitoring

C1

was implemented. A topic that seems to be less clear (or that authors could take into consideration) is the potential erosion of soil (of the compound tested in the experimentation) by runoff (and impacts on vegetation growth) and the evolution of soil structure and composition along the period of observation. In a more comprehensive analysis, I consider the contents of this paper to be of good quality. It is very clear in terms of the methodology employed, which seems to be appropriate, and reveals a clear and logical structure. I consider the contents of this paper to be of good quality and could be published after some minor corrections and theoretical framework improvements.

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2017-72>, 2017.

C2