

## EVALUATION FOR THE MANAGEMENT OF WASTES RESULTED FROM DEEP EXCAVATIONS RELATED TO PROJECTS IN JORDAN

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### ABSTRACT

This research aims at conducting evaluations for the management of wastes resulted from deep excavations in addition to identify the methods used to dispose those wastes for projects in Jordan. The idea of this research proposed that there are poor management for the wastes generated during conducting deep excavations, and therefore these wastes could potentially be hazardous to environment and public safety. The implemented methodology in performing this research comprised four phases. The first of these focused on the literature review for previous studies related to deep excavations and their wastes. The second phase concentrated on designing a survey questionnaire regarding attitudes for executing deep excavations and controlling their wastes in Jordan, then distributing this survey to several construction companies. The third phase was the analysis of the collected data using SPSS program. The last phase concerned with developing guidelines and preparing for conclusions. Based on the analysis of the field survey for this research, the results indicated that there is a lack in the application of the engineering management for the excavation's wastes, and that was clear through the existence of some wrong practices such as a lack of commitment to conduct a study of the general location of the project, and the in determination for the location of the output storage pits in case of non-compliance with the specifications of the backfill, in addition to other results that had been fixed in the conclusions of this research. Out of the conclusions of this research, it is recommended that Jordanian's construction companies should accurately perform the Jordanian Construction Code related to how to deal with construction's wastes, and this may be one of the responsibilities of the Jordan Engineers Association to enforce those companies to conduct the intended requirements.

**Keywords:** Deep Excavations, Construction's Wastes, Excavation's Work Planning, Workers Health and Safety, Waste Management.