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Integrated Geophysical Monitoring for a Reclaimed Land with Geotechnical Investigation

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Geoelectrical monitoring for three months at a reclaimed land by drainage with additive geophysical exploration including MASW, micro tremor and some geotechnical investigation such as CPT (Cone Penetrating Test) and lab tests from drilled core was performed to understand the variation of the physical property of target material. The main purpose of the test is to find any relation between the result of geoelectrical monitoring and geotechnical characteristics, and geostatistical method was applied to integrate different kinds of information. The result showed that the boundaries of layers are distinguished only from the monitoring result and showed very good correlation with the CPT result, but single exploration by MASW did not show any distinct information to recognize the geotechnical boundaries.