

Thesis Title	Seismic Reflection Survey to Determine the Shallow Subsurface Geology, San Kamphaeng District, Chiang Mai Province
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ABSTRACT

Seismic exploration at San Kamphaeng District, Chiang Mai Province was carried out using a 48-channel recording equipment with single geophone of a 28 Hz natural frequency and Elastic Wave Generator as used as a seismic energy source. The objectives of this study were to determine parameters for seismic data acquisition using available equipment, and perform data processing using VISTA5.5 software, aiming at defining shallow subsurface structure. Due to heavy pumpage of groundwater for irrigation in the San Kamphaeng area, details of shallow subsurface structures are often necessary to evaluate hydrologic flow for developing effective groundwater monitoring and mitigation procedures. The geologic model was constructed from gravity anomaly by correlating with drill-hole data. Interpretation of seismic processed data was made by correlating with the geologic model. The results of correlative interpretation shows normal faulting and shallow subsurface are dipping to the basin.

