

Related Project Experience - The Sanberg Group, Inc.

PROJECT TITLE AND LOCATION:

Abuno Barangay, Illigan City, Mindanao, Philippines

BRIEF DESCRIPTION OF PROJECT:

TSG was retained to provide hydrogeologic evaluation services for the purpose of locating and developing a sustainable groundwater resource for a private school located in the mountains south of Illigan City, Mindanao, Philippines. The project included the evaluation of previous geophysical data,



site reconnaissance, satellite photo interpretation, well site location, and drilling of an exploratory well. Project specifications included the

development of a groundwater resource capable of sustaining a water usage of about 2,500 gallons per day. Following completion of the exploratory

well, which proved to be a sustainable resource, an additional well was successfully drilled and completed. Preliminary aquifer testing was performed indicating a groundwater resource capable of producing between 8 and 12 gallons per minute.

All field work was performed

under remote conditions in a tropical environment, without the aid of readily accessible materials. Following well installation, permanent pumps were placed in the wells and a survey was performed to transfer the water to water tanks for use by the facility. A design was prepared that provided for an automated system that would keep the water storage tanks filled. Trenching and the installation of over 700 feet of PVC water line was performed, including connection of high-low water switches to control the groundwater pumps on an "as-demand" basis.

Subsequent well testing in January 2009 indicated that the wells are producing from a confined aquifer and have specific yields ranging from 0.899 to 1.659 gallons per foot. Safe sustained discharge ranges from 3 to 8 gallons per minute.

