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Providing SkyJuice Water Filtration System (WFS) to two central schools in the Guangdong Province in China (June 2012)

After the successful experience of the 4 pilot WFSs in Xian in December 2011, Rotary Clubs in District 3450 (Hong Kong, Macau and Mongolia) planned water treatment systems for two schools in Guangdong Province in July 2012. The recipient schools are Ching Yuen Central School and Chiu On Central School. (Note: Central School is the latest trend of primary and secondary school development in China. These are Government schools built to the standard that the school serves a geographic area of about 20km radius. Each school takes about 1000 students. Because of the travelling distance, most of the students reside at the school)

Many of these schools are in the rural areas, where city water supply is not sufficient nor potable. They usually mix water with well, river, rain water, etc to provide drinking water for the students. This has presented major health problems to the students and staff of the schools. Rotary District 3450 decided in 2010 to provide a suitable filter system to these schools to provide clean drinking water to the students. The SkyHydrant was selected because of its simplicity and minimal maintenance requirements. A local contractor is employed to build the infrastructure of the system, which includes 2 water tanks, 1000L for the dirty water and 1500L for the clean water, the steel structure to support the tanks, a total of 15 taps, and connections to the SkyHydrant, etc. A concrete foundation is also required to support the entire WFS.

After selection of the 2 schools, a team of Rotarians visited the schools in late May with the contractor from Xian to discuss and finalise the design of each of the WFSs with the schoolmaster on site. The 2 WFSs were installed and tested in June. Water samples were taken for analysis, which later confirmed that the filtered water is suitable for drinking. The 2 WFSs have since been used for the students and staff of the schools. Rotarians are planning to revisit the schools again in September, 3 months after the installation, to ensure they are being maintained properly in accordance with the SkyHydrant requirements.

The Rotary WFS plan will not stop at these 2 systems in Guangdong. District 3450 has plans to build a total of 40 WFSs for schools in Xian this year. The strategy is to provide sufficient publicity of the importance of providing clean drinking water to the students by the WFSs. It is hoped that the Chinese Education Bureau will follow the Rotary lead and provide a WFS to each school in Xian, and then to all schools in China eventually.

These SkyJuice systems will provide free, safe water for more than 2000 children. From past experience we know that absenteeism will decrease as the children will no longer miss school due to illness from water borne diseases.



Photos of the SkyJuice Systems in two schools in Guandong Province, China. The SkyHydrant water filtration unit provides safe water for 1000+ students in each school. Prior to the SkyHydrant deployment the water was sourced from a combination of well, river and rain water which was not safe to drink. Rotary Clubs in District 3450 will ensure that the SkyHydrant system is being maintained correctly with regular school visits.

Deployment: June 2012

