CLEAN WATER AND SAFE WASTE DISPOSAL FOR ALASKA

CCHRC is partnering with the Alaska Native Tribal Health Consortium, CampWater Industries, and Lifewater Engineering to develop an In-Home Sanitation System for the community of Kivalina, located on a small island in the Chukchi Sea in Northwest Alaska. Kivalina residents currently ration water and use a self-haul honeybucket system for sewage, but they do not have an approved location for the honey bucket disposal. The village is threatened by erosion and plans to move to the mainland in the future, which means they cannot get funding for a permanent piped sewer system.

The system developed for Kivalina will be tested in ten volunteer homes over the course of 2015-2016. The systems are designed to use rainwater catchment, on-site water purification, and safe disposal of waste. The systems are also 'stand-alone' models, meaning that as homes are moved to the new village site away from the eroding coastline, they can bring their clean water and safe sewer with them.

KEY

A) RAIN WATER CATCHMENT  F) GREY WATER TANK - PURGES TO OUTDOORS WHEN FULL
B) INTEGRATED VENTILATION  G) WATERLESS URINAL
C) GRAVITY FEED SUPPLY  H) WATER TREATMENT PLANT
D) SEPARATING TOILET
E) LOW-FLOW SINK