



## RESOURCE RECOVERY • KA'OHĀO PROTOCOL

A partnership of Windward schools working cooperatively in the pursuit of waste reduction, soil restoration, and applied environmental education. All members participate annually in the U.S. EPA's Food Recovery Challenge and adhere to strict, safe, standardized operational procedures.

### SUMMARY • MAY 2018

**Food waste audits conducted at KIS and ELES** • Double-day food waste audits were scheduled in early May at **Kailua Intermediate** and **Enchanted Lake Elementary**, the two schools selected for the next round of expansion. Although both sites offer significant challenges we feel ready to take them on as we wrap up a extraordinarily strong and productive year. Audit results show KIS with annual waste generation of 17.2 tons and ELES with 22 tons – this will more than double our current yearly diversion rate of 31 tons.

**St. Mark Lutheran School installs bin, adopts Ka'ohao Protocol** • First grade teacher **Julie Venegas** tirelessly pursued grants following St. Mark's waste audit a year ago to acquire a Pipeline bin to vermicompost a portion of their organic resource. The Hui has designed and will assist to implement their program, an opportunity to adapt our DOE waste collection methodology to a small private school with an uncentralized lunchtime situation.

#### KA'OHĀO PUBLIC CHARTER SCHOOL

Start: January 2014 • Number of students: 330 • 2017 food waste: 7.74 tons • Food waste collection: 100% cafeteria lunch and campus-wide snacks • Other: HI-5 cans and bottles, green waste, paper, cardboard, mylar • Technologies: thermal composting, vermicomposting.

Food waste recovered: 1,351 pounds. Ka'ohao remains the undisputed State leader in waste reduction recovering 100% food waste, 100% HI-5 cans and bottles, 100% green waste, 95% paper, 90% cardboard, plus the elimination of single-use disposables at lunch thanks to the dishwasher installed in January. Sixth graders have perfected the separation station/dishwasher protocol. Mr. Sawyer is planning to include 5th graders into the operation starting in August.

#### KA'ELEPULU ELEMENTARY

Start: August 2016 • Number of students: 200 • 2017 food waste: 9.18 tons • Food waste collection: 100% cafeteria breakfast and lunch • Other: HI-5 cans and bottles, some green waste • Technologies: thermal composting, vermicomposting

Food waste recovered: 1,892 pounds. World Champion hot compost harvesters! All 4th, 5th, and 6th graders participate.

#### KAINALU ELEMENTARY

Start: January 2017 • Number of students: 463 • 2017 food waste: 14.83 tons • Food waste collection: 100% cafeteria breakfast and lunch • Other: HI-5 cans and bottles • Technologies: thermal composting, vermicomposting

Food waste recovered: 3,328 pounds. Kainalu kitchen staff followed Ka'elepulu's lead and switched from styrofoam to paper trays starting with the new school year. Stacks of new trays were delivered and the very last of the styrofoam distributed at the May Day celebration luncheon. Good riddance! In addition, Head Custodian Joy took a leap of faith and agreed to allow us to initiate a Green Waste Depot on campus on the site of the 2017 compost array. She estimates that custodians formerly filled the 4-cubic yard dumpster over 60 times a year with grass clippings, leaves, prunings, garden gleanings, etc., all in plastic rubbish bags. Instead, now all green waste will be deposited un-bagged under a tarp and watered weekly. This material will melt down naturally to a lump of medium-grade compost that can be used to replenish Kainalu's vast nutrient-depleted schoolyard.

#### COMBINED MAY 2018 TOTALS

Five-week period from April 30 – May 31, 2018. Includes 23 school days Ka'elepulu & Kainalu, 22 days Ka'ohao. Total students participating daily: Approx. 1,000.

Total food waste recovered in May: 6,571 pounds.

**2018 total to date: 30,011 pounds (15.01 tons)**