

# AQUAKLEAR CASE STUDY

Affordable Wastewater Treatment for Residential & Commercial Properties

## RESIDENTIAL SEPTIC REPAIR, SANTA CRUZ

**Problem** When a Santa Cruz County couple purchased a two bedroom home on a small lot, they knew the old septic system needed to be replaced. Because of the small lot size and its proximity within a watershed, stringent County regulations required the installation of an advanced treatment system.

**Solution** The septic designer needed a treatment system that would provide complete environmental protection and also fit under the driveway. He chose to replace the failing septic system with a concrete traffic rated AquaKlear treatment unit featuring advanced nitrogen reduction technology.

### Tiny Hillside Lot with Very Steep Slopes



*AquaKlear's unit is discreetly situated in the driveway*

The owners of a charming two bedroom hillside home needed to replace their failing septic system and wanted an environmentally friendly solution that would protect the health of their family and the community, without breaking the bank.

Extremely limited space – *entire lot measures just 3700 square feet* – and steep slopes created quite a challenge for septic designer **Ken Mabie** (Environmental Concepts) who knew that county regulations would require a high level of treatment.

“I needed a high tech, environmentally sensitive system that would reliably reduce nitrogen to protect the critical San Lorenzo Watershed” says Ken “and I chose **AquaKlear** as the best, and most affordable, solution for my clients.”

Ken specified AquaKlear's traffic rated concrete model **AK6S245C\*** – a nitrogen reduction system capable of treating up to 600 gallons of sewage each day.

*\* AquaKlear's model AK6S245C is a certified "NSF/ANSI Standard 245" treatment unit*



### Property Overview

- ✓ 2 Bedroom / 1 Bath
- ✓ 3700 Square Foot Lot
- ✓ 270 GPD Flow Rate
- ✓ Sandy Loam 10-20 mpi
- ✓ Very Steep Slopes 50%+
- ✓ Within Watershed
- ✓ Densely Populated Area

### AquaKlear Solution

- ✓ **Model AK6S245C\***
  - 600 GPD Unit
  - Nitrogen Reduction
  - Traffic Rated Upgrade
  - Integrated Pump Tank
- ✓ **Geoflow Drip System**
  - 400 SF Field
  - Pressure Compensating
  - Slopes from 50-75%



# WASTEWATER TREATMENT BY BETTER THAN SEPTIC®

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AquaKlear's patented technology uses aeration and timed recirculation to transform sewage water into safe clean recycled water.

For dispersal of the treated water, Ken designed a 400 square foot **Geoflow** subsurface drip system along the backyard's steep terraces – ranging from a 50 to 75% slope.

According to contractor **Mark Kinder** ([Affordable Septic & Excavating](#)) this job was quite a challenge:

“Because of the limited space and steep slopes, my team did a lot of hand digging while trying not to disrupt the owners and neighbors during the fast three day install.”

AquaKlear's feature packed design addresses many difficult site challenges and provides years of trouble free and reliable treatment – [CLICK HERE TO LEARN MORE](#)



Slopes greater than 50% required careful hand digging during the Geoflow drip system installation

### Start-Up Date

✓ August 2016

### Septic Designer

✓ Environmental Concepts  
(831) 684-1555

### Contractor

✓ Affordable Septic &  
Excavating  
(831) 338-8900  
CSLB #570532



AquaKlear's control center (top to bottom):  
AKE Drip Controller, Rmsys monitoring  
system, AK Dual Outlet Compressor

And AquaKlear is more affordable to install, operate and maintain than other complicated and expensive systems, saving thousands of dollars over the life of the system.

For more information about the quality AquaKlear treatment system contact:

**Better Than Septic®**  
**(844) 224-2782 (AQUA)**  
[www.BetterThanSeptic.com](http://www.BetterThanSeptic.com)



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