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# **Efficient Large Bottle Cleaning**

## Seth John

## **Abstract**

This protocol is designed to allow you to clean larger GEOTRACES bottles to the highest standards of cleanliness, but in a time-efficient manner.

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### **Protocol**

#### Step 1.

Place bottles upside down into a soap bath overnight.

## Step 2.

Remove bottles from soap, and rinse thoroughly 7 times inside, and a few times outside to remove soap.

## Step 3.

Place bottles upside down into a 1N HCl bath. Leave for one week, perhaps inverting at some point to make sure all surfaces are exposed.

## Step 4.

Remove bottles and caps from the bath and rinse thoroughly 7 times to remove most of the HCl.

## Step 5.

Dry, sticker, double bag for placement into boxes for shipping.

## Step 6.

Each crate should be ziptied and stickered, and contain two zipties taped to lid, one card, a large interior bag, and twelve bottles, each of which are double-bagged.