

## Sampling Instructions for "Advanced" Well Water Testing Kit

### Carefully Read Instructions Before Collecting Your Samples

- This kit will test for Coliform & E. coli Bacteria, Arsenic, Nitrate, Chloride, Iron, Manganese, Sodium, pH, Lead, Copper, VOCs
- Cooler contains: Gel Ice Packs, 1 Square Bottle, 1 Sealed Sterile Round Bottle, 2 Glass Vials, 4 Alcohol Pads, these Instructions, and a Chain of Custody Form
- Identify whether or not the required shipping arrangements can be met before collecting the samples
- One Sampling Kit to be used for One Sampling Point
- Do not rinse the round sterile bottle and discard the white powder. It is the sample preservative
- Do not rinse two glass vials. They contain Hydrochloric Acid as preservative
- Do not collect the samples and ship them on Friday, weekend, or the day before national holidays
- Do not arrange shipments to arrive to Advanced Analytical Technologies on Fridays, weekends, or the day before national holidays

1. Take out the Gel Ice Packs from the cooler and freeze it for at least 8 hours prior to sample collection. Return to the cooler just prior to sampling and/or shipping.
2. Determine the sampling point (kitchen tap, bathroom tap, etc.).
3. Remove any aerators, purifiers, or other devices from the tap/spigot you are collecting samples from.
4. Run the cold water for approximately 15 minutes, then adjust the flow to a thin stream (about the diameter of a pencil).

#### **Do not forget to write the Name of Sampling Point, Date and Time of sampling on each bottle label**

5. First obtain the large square bottle (Test for Arsenic, Nitrate, Chloride, Iron, Manganese, Sodium, pH, Lead, Copper). Fill the bottle to the neck and cap securely. Place the bottle in the cooler.
6. Then, obtain the two vials (Test for VOCs). ***These vials contain preservative - Hydrochloric Acid. Do not rinse the vials. Be careful not to spill this preservative.*** Take the first vial and slightly overfill it to be sure there is an exclusion of air. Cap the vial and invert it to determine whether there are any air bubbles present. If there are, add a little more water to the vial to displace the bubbles. Cap the vial firmly, ***without over tightening***, and place it in the cooler. Fill the second vial the same way as the first one.
7. Shut off tap/spigot. Disinfect the tap/spigot using the provided alcohol pads. Run the water for approximately 3 minutes to clean the tap/spigot.

8. Adjust the flow to a thin stream (about the diameter of a pencil).
9. Open the round shape sterile bottle with the plastic/paper seal (Test for Total Coliform and E. coli). Hold the cap in your hand with the inside facing down. Do not place the cap on top of any surface. Fill the bottle to the shoulder keeping air space.

**BE SURE NOT TO TOUCH THE INSIDE OF THE BOTTLE OR CAP IN ORDER TO AVOID ANY BACTERIA CONTAMINATION**

Cap the bottle securely. Place the bottle in the cooler.

10. Complete the enclosed Chain of Custody Form, indicating the Name of Sampling Point (kitchen tap, bathroom tap, etc.), Date and Time of sample collection for each bottle. Retain a copy of the Chain of Custody Form for your records and return the completed form to the cooler.
11. Return the gel ice pack(s) to the cooler and prepare the cooler for delivery/shipment.

### Shipping Arrangements

***\*\*The collected samples MUST be received by the laboratory within 24 hours of sample collection\*\****

12. If you need to ship the collected samples back to the laboratory, be sure that the carrier (UPS, FedEx, etc.) will deliver the samples within 24 hours from the time of the sample collection. It is suggested that the sample collection take place as close to the time of shipping as possible to ensure the time constraint will be met.

Do not arrange shipments to arrive to Advanced Analytical Technologies on Fridays, weekends, or the day before national holidays

13. If you will deliver the collected samples to the laboratory, please call us at 1-800-259-9532 to make necessary arrangements.

Laboratory address:      Advanced Analytical Technologies, Inc.  
   37 Ramland Road  
   Orangeburg, NY 10962

Please call us at 1-800-259-9532 if you have any questions regarding sample collection or our services.