

# Instructions - LEAD AND COPPER

## SAMPLE COLLECTION PROCEDURES FOR "FIRST DRAW SAMPLES"

1. THE CLIENT IS RESPONSIBLE FOR COMPLETING ALL INFORMATION ABOVE THE LINE. Failure to complete all the information may result in rejection of the samples. Please print all information and make sure the information is legible.
2. The sample must be collected in bottles supplied by this laboratory. After collection immediately ship the sample to the lab at ambient temperature (shipment on ice is optional). Upon arrival at the laboratory, the sample must be acidified with concentrated HNO<sub>3</sub> to pH <2 and held for at least sixteen (16) hours before analysis.
3. Sample collection procedures and criteria are published in 40 C.F.R., 141.86. Your system should have previously developed a sample siting plan and submitted it the Water Supply Branch. Take samples listed at locations listed on your "Plan".
4. The bottle labels for each location have a "Sample Number<sup>t</sup>". This sample number must be listed on the front of this information sheet.
5. Samples can be collected any time as long as the water has stood undisturbed in the pipes **for a minimum of 6 hours**.
6. Verify that all sample information has been completed on the forms, place bottles and forms in box, and return to the lab as soon as possible, but within 7 days.
7. After the samples are analyzed, regulations require that the laboratory mail the results of all compliance samples to the Public Water Supply Section (Attn: Data Entry), 1634 Mail Service Center, Raleigh, NC 27699-1634. A copy will be sent to the client, and the client shall retain the copy for at least twelve (12) years.
8. If the form should be returned to the client marked "**Sample Unsatisfactory**," **this** means another sample will have to be collected. The COMMENTS section on the front of the form will give the reason.

### TYPES OF SAMPLES

**Routine:** A sample collected in the distribution system from a pool of sampling sites indicated on the system's Lead and Copper Sampling Plan (which are those sites having the greatest likelihood of experiencing the highest lead and copper levels). The sample is collected for compliance monitoring.

**Replacements:** A sample collected for the replacement of a routine sample. A replacement sample is not accepted by the State until the routine sample has been invalidated by the Lead and Copper Rule Manager.

**Special/Non-compliance:** A sample collected for special purposes and is not for compliance monitoring.

### SAMPLE SITE TYPE

#### **Community Systems:**

**Tier 1** A single family structure that:

- (i) Contains copper pipes with lead solder installed after 1982 or contain lead pipes; and/or
- (ii) Is served by a lead service line. When multi-family residences comprise at least 20% of the structures served by the water system, the system may include these types of structures in its sampling pool as Tier 1 sites.

**Tier 2** Any building, including multi-family residences, that:

- (i) Contains copper pipes with lead solder installed after 1982 or contain lead pipes; and/or
- (ii) Is served by a lead service line.

**Tier 3** A single family structure that contains copper pipes with lead solder installed before 1983.

**Other** Site other than Tier 1, Tier 2, and Tier 3 that constitutes a site in which the plumbing materials used at the site would be commonly found at other sites served by the water system.

#### **Non-Transient Non-Community Systems:**

**Tier 1** Any building that:

- (i) Contains copper pipes with lead solder installed after 1982 or contain lead pipes; and/or
- (ii) Is served by a lead service line.

**Tier 2** Not applicable

**Tier 3** Any building that contains copper pipes with lead solder installed before 1983.

**Other** Site other than Tier 1, Tier 2, and Tier 3 that constitutes a site in which the plumbing materials used at the site would be commonly found at other sites served by the water system.