

Instructions

RADIOLOGICAL CHEMICALS

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. Check appropriate box for Sample Type (see “Types of Samples” definitions below). Note: If a single distribution sample is being collected (system must have permission for reduced monitoring) check the box for “Distribution” after “Sample Type”. Check the “Entry Point” box for samples collected at each entry point to the distribution system after application of any treatment. The “Composite” box should be checked for the initial routine sampling that requires that one sample be collected in each of the four consecutive calendar quarters and composited (combined) before analysis. All other samples are designated as “Special/Non-compliance” and do not count for compliance with monitoring requirements of the North Carolina Drinking Water Act.
3. The samples must be collected in bottles supplied by this laboratory.
4. Routine compliance samples must be collected at the entry point. Before taking samples, let water run for five (5) minutes. Fill each supplied sample container to within approximately one inch of the top leaving an air space, then cap the container securely. Place the samples and completed collection form in the shipping container. Forward all samples to the laboratory immediately after collection.
5. Single samples will be held by the laboratory for the appropriate holding period, then analyzed immediately. Composite samples will be stored by the laboratory until all four quarterly samples are received at which time one composite analysis will be performed.
6. 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 ten (10) years.
7. If the “gross alpha” exceeds five (5) pCi/liter, “radium 226” must be analyzed. If the “radium 226” exceeds three (3) pCi/liter, “radium 228” must be analyzed. If the “radium 226” and “radium 228” combined exceed five (5) pCi/liter, the maximum contaminant level has been exceeded and corrective measures must be taken. If the “gross alpha” concentration exceeds fifteen (15) pCi/L, “uranium” must be analyzed. IF URANIUM IS ANALYZED, RESULTS MUST BE REPORTED IN BOTH UNITS OF MEASUREMENT (pCi/L and ug/L).
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

Entry Point: A sample collected from an entry point to the distribution after application of treatments, if used for compliance monitoring.

Composite: The initial routine sampling that requires that one sample be collected in each of the four consecutive calendar quarters and composited (combined) before analysis.

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