

Title	Radionuclides in Drinking Water
Test Explanation:	<p>All Community and Municipal Public Water Systems must test for radionuclides as directed by IDEM. Testing is on a schedule based upon your water supply and for most systems this is every 3, 6 or 9 years, although some systems may be done annually or in rare cases, quarterly.</p> <p>Drinking Water can be tested for private water supplies and well water sources that are not reported to IDEM. The fee for a private submitter includes a screen for gross alpha and gross beta particles, Uranium and Radium-228.</p> <p>Radionuclides include Radium and Uranium. Radium causes cancer when consumed in high doses. Radium is a chronic contaminant. Long-term exposure to high levels of radium can cause an increased incidence of bone, liver, or breast cancer. Radium is a naturally occurring contaminant in drinking water due to its presence in most major rock types found in Indiana. Uranium also occurs naturally in Indiana. Excess uranium ingestion is associated with kidney disease.</p>
Specimen Requirements	<p>The entire container must be filled and received at the lab within 5 days of collection or the sample will be rejected. A Chain of Custody must be completed included with the submission.</p> <p>Please call 317-921-5500 and ask for the Radiochemistry Lab if you have technical questions.</p>
Sampling Materials	<p>Sample Collection Containers will be sent after an order is received.</p> <p>Drinking Water samples for compliance with the Indiana Department of Environmental Management (IDEM) mandated sampling schedule are collected in a provided 1 gallon cubitainers. A separate 1 gallon bottle is required for each Point of Entry (POE) of your water system. The laboratory will provide sampling kits at \$100 per POE plus a \$6.50 shipping charge for the entire order.</p>
Procedural Notes	<p>IDEM will contact Public Water Supplies about their sampling needs.</p> <p>For Public Water Supplies, only the mandated tests will be performed. Testing for systems serving under 100,000 people will include gross alpha and gross beta activity, Uranium and Radium-228 (and Radium-226 if needed).</p> <p>Test results go directly into IDEM's reporting system.</p>
Shipping Instructions	<p>Collect and ship samples to arrive at the laboratory within 5 days. Use a service such as UPS to guarantee arrival within the specified time. Be sure the corresponding Chain of Custody is included in each box shipped.</p> <p>Ship to:</p> <p>ISDH Laboratories Attn: Radiochemistry Lab - Water Sample 550 W. 16th Street Suite B Indianapolis, IN 46202</p>