

# Environmental radioactivity measurements

Sensitive radioanalytical techniques have been developed to measure a range of radioisotopes including those in the natural uranium and thorium decay series to the lowest levels of radiometric detection. Sensitive radioanalytical instruments are used and dedicated to measure only low level activities to avoid cross contamination.

Applications of this type of analysis are in the areas of 'naturally occurring radioactivity in materials such as in plants, food products, soil, sediment and water from different sources.

Please note: This facility will not accept samples with elevated levels of radioactivity to avoid contaminations in the laboratories.



## Capability Selections

Low level radioactivity measurements using:

- Alpha spectrometry (U radionuclides)
- Alpha spectrometry (Th radionuclides)
- Alpha spectrometry (Pu-239+240 radionuclides)
- Alpha spectrometry (Am-241)
- Alpha spectrometry (Po-210)
- Alpha spectrometry (Ra-226)
- Alpha spectrometry (Ra-228 on BaSO<sub>4</sub> source)
- Gamma spectrometry

Also:

- Low level strontium-90 (Sr-90) measurements using beta spectrometry
- Low level lead-210 (Pb-210) measurements using beta spectrometry

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Please discuss your proposal with the appropriate ANSTO contact scientist before submitting your proposal as they will assist you in making the correct capability selection.

For further information please contact:

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