

GAU Radioanalytical Services

Materials Analysed by GAU	Waste Characterisation	Environmental Monitoring	Petroleum Industry	Manufacturing Industry
Water	•	•		
Aqueous solutions	•			
Oil			•	
Petroleum condensates			•	
Scales			•	
Concrete	•			
Brick	•			
Ceramic tiles	•			
Insulation	•			
Asbestos	•			
Steel	•			
Aluminium	•			
Cadmium metal	•			
Sodium metal	•			
Graphite	•			
Paint	•			
Filters	•			
Smears	•			
Textiles	•			
Plastics	•			
Glass	•			
Soil	•	•		
Sediment	•	•		
Ores				•
Phosphate				•
Clays				•
Sludge	•			
Vegetation	•	•		
Wood	•	•		
Meat		•		
Fish		•		
Shellfish		•		
Eggs		•		
Milk		•		
Urine		•		
Sewage		•		

Standard Radioanalytical Techniques	Gamma Spectrometry	Alpha Spectrometry	Liquid Scintillation Counting	Gas Flow Proportional Counting	Mass Spectrometry
High resolution Gamma Spectrometry	•				
Gross alpha/beta				•	
Tritium			•		
Carbon-14			•		
Chlorine-36			•		
Calcium-41, 45			•		
Iron-55, 59			•		
Nickel-63			•		
Selenium-79			•		
Strontium-89, 90			•		
Zirconium-93			•		
Technetium-99			•		
Cadmium-109, 113m			•		
Iodine-125, 129	•		•		•
Promethium-147			•		
Samarium-151			•		
Lead-210	•				
Polonium-210		•			
Radon-222			•		
Radium-226			•		•
Thorium-230, 232		•			•
Uranium-235, 236, 238		•			•
Neptunium-237					•
Plutonium-238, 239+240, 241		•	•		•
Americium-241, 243	•	•			
Curium-242, 243		•			
Sediment Dating					
Pb-210 dating	•	•			
Cs-137 dating	•				
Field Based Services					
Field gamma surveys	•				
Sampling					
Autosampling					