



Equipment	Parameters
<b>Analytical instruments</b>	
Calorimeter	Heat quantities in kJ/kg or Btu/lb
Spectrofluorometer	Elementary analyses of the metal in samples (solid, liquid)
PerkinElmer atomic absorption	Metal analysis (Co, Cr, Cu, Mn, Ni, K, Na, Ca, Mg, Zn, Al, Fe, Ti, Hg, Cd, As, Pb)
Total organic carbon/nitrogen analyzer	Total organic carbon (TOC), inorganic carbon (IC), total nitrogen (TN)
Gas chromatograph and mass spectrometer (GC-MS), FID detector, TSD	Organic compound analysis
HPLC conductivity detector (ion-exchange chromatography)	Negative ion analysis (fluorides, nitrates, nitrites, sulphates, bromides)
HPLC UV detector	Organic compound analysis, no pump gradient
ICP spectrometer	Metal analysis
PerkinElmer FTIR infrared spectrometer	Qualitative determination of an organic compound
Thermal analysis equipment ATD-ATG syst FCA	Mass and temperature variations in a sample during heating
Rubotherm thermogravimetric suspension balance	Thermogravimetric behaviours
Hydrometer	Liquid and gas density
Denver density kit	Solid density
Laser beam particle size analyzer	Particle-size distribution
Rotap screen agitator	Particle-size distribution
CAP-90 air purification system	To eliminate lab odours and dust
Wesphal balance, pycnometer	Liquid density
Cleveland flash & fire points	Flash point
Pensky Martens flash point tester	Flash point

Hydrometer	Soil texture
Lumino Tox	Toxicity (portable)
Luminos	Spectrophotometer (portable)
Oxygen profiler	BOD, dissolved oxygen
pH-metre AB15, AR10	pH/mv/oC
Melting point	Melting point of solid matter
Hach COD reactor	COD with DR2000
Refractometer	Refractive index of a liquid
Hach respirometer	BOD5, BOD7 and BOD10

## Preparation

Fritsch Jaws Crusher hammer mill	Crushes mineral samples
Planetary mill	Finely crushes small samples
Cutting mill	Crushes samples (plastics, organic matter, etc.)
Hot/cold 12-tonne press	Hot/cold prep tests

## Sampling

Kemmerer water sampler	Water sampling
Kestrel weather kit	Pocket-size kit for weather and wind
Oxygen profiler	BOD
Hach portable turbidimeter	Turbidity
Eckman Dredge sediment sampler	Sediment, bottoms of waterways
Portable peristaltic sampler	Continuous sampling of liquid flux
AMS soil sampling kit	Soil drilling and sampling
Lamotte portable turbidimeter	Turbidity

## Occupational health and safety

Velocity stick	Supply grille air flow
Air capture hood	Supply grille air flow
Miniwarn, Draeger gas detector	LEL, CO, O2, H2S or NH3
Detector for microwave probing	Microwave emissions
Dosimeters	Noise
Luminometer	Light in a room
Electromagnetic fields monitor	Electromagnetic fields

WBGET RSS-214 thermal stress monitor	Heat in a workplace
Psychrometer	Relative humidity in the air
UVX-CR digital radiometer	Ultraviolet rays
A-21ZX Portable ozone sensor	Ozone emissions (e.g. photocopier)
Larson Davis integrating sound level meter	Noise
ST-20 infrared thermometer	Temperature in inaccessible areas
3M mask fit testing kit	Mask efficiency
Vibrometer	Vibrations