

OHL Instrumentation

The Occupational Health Laboratory has the following instrument resources as of February 12, 2007.

Instrumentation	Analyses
Atomic absorption spectrophotometry	Metals by flame, Arsenic by hydride generation.
Gas chromatography	Organic analysis of volatile compounds using capillary columns with flame ionization, electron capture, and mass spectrometer detection.
Liquid chromatography	Organic analysis, including isocyanates and formaldehyde, using ultraviolet and fluorescence detection
Ion chromatography	Inorganic and organic cation analysis using conductivity detection.
X-ray diffraction	Crystalline respirable silica (quartz, Cristobalite, and Tridymite) determinations, and unknown mixture analysis.
Ultraviolet and visible spectrophotometry	Hexavalent chromium and hydrogen peroxides.
Ion specific potentiometry	Various inorganic determinations including cyanide and fluorides
Optical microscopy	Phase contrast microscopy for airborne asbestos, polarized-light microscopy using central stop dispersion staining techniques for analysis of materials for asbestos and other fibers.
Gravimetric analysis	For air samples, especially carbon black, coal tar pitch volatiles, nuisance dust, oil mist, and wood dusts.
Fourier transform infrared spectrophotometry	Mineral oil mists
Ion coupled plasma spectrophotometry	Metals analysis by plasma emission spectrophotometry