

INORGANIC ANALYSIS

LABORATORY TESTING FOR INORGANIC PARAMETERS

The term “inorganic” covers a wide variety of compounds. It generally means substances that do not contain organic carbon. These include minerals, metals and anions. SGS has a wide range of inorganic tests available. These tests can be run on soil, sediments, water, biota, biosolids, sludge, solids, waste solutions and air.

SGS TECHNOLOGY

SGS uses state-of-the art technology to conduct inorganic testing. Our leading analytical instrumentation includes inductively coupled plasma-optical emission spectroscopy (ICP-OES), inductively coupled plasma-mass spectroscopy (ICP-MS), atomic absorption, X-ray fluorescence, ion chromatography and classical chemical techniques.

SPECIALTY ANALYSIS

SGS offers many types of specialty analysis. For instance, we are able to detect hexavalent chromium at 0.03 parts per billion in drinking water. Other techniques include metal speciation of elements such as arsenic and nickel. This allows us to measure different metal species which exhibit different levels of toxicity and mobility in the environment. Mercury can be analysed in soil, sediment, water and other sample types to the parts per trillion level.

Our ability to differentiate the various forms of these compounds gives you a better understanding of issues related to occupational health and safety and industrial hygiene.



Other special tests of note include:

- Trace metal analysis
- Ultra-trace metals analysis
- Rare earth element analysis
- Major anions determination
- Major cation determination
- Disinfection by-product testing

FULL SERVICES AVAILABLE AT SGS

Many of these inorganic parameters comprise parts of other services we offer at SGS. These include:

- Acid rock drainage prediction testing
- Contaminated site analysis
- Solid and liquid waste analysis
- Drinking water analysis
- Occupational health and safety

Choose SGS, for the confidence you get when you know your decisions are based on information you trust.

EASY-TO-READ AND UNDERSTAND REPORTING

- From sample process design to the electronic formatting of reports, we assist you with your regulatory compliance so you have the freedom to focus on your core business.
- Direct data input from the instrument to our Laboratory Information Management System provides a secure data trail, while our unique customer interface “iOnView” gives you immediate online access to approved data.

CONTACT INFORMATION

Email us at ca.env@sgs.com
www.environment.sgs.ca
www.environment.sgs.ca/fr-FR/

WHEN YOU NEED TO BE SURE

SGS