



Laboratory Testing of Water-Based Samples

The safety and protection of our water sources are of paramount importance to our society today. Electric utilities have the need for routine monitoring of aquatic systems and emergency response testing of water after spills or failures.

Powertech Labs' Applied Chemistry environmental laboratory is equipped with the expertise and instrumentation to provide a full range of services needed to diagnose existing and potentially devastating issues in a variety of water-based samples.

Our battery of tests include inorganic parameters such as heavy metals, major ions and trace metals. Organic quality tests include volatile organics as well as semi-volatile organics such as PCBs, dioxin and furans, and PAHs.

The analytical methods used in the lab are based on internationally recognized procedures from Environment Canada, ASTM International, and the United States Environmental Protection Agency (USEPA). Powertech is able to determine trace levels of contaminants in water (and soils) for compliance with provincial, state, and national regulations.

Analytical capabilities of Powertech's environmental laboratory include:

- pH
- Extractable Petroleum Hydrocarbons (EPHs)
- Polychlorinated Biphenyls (PCBs)

- Oil and grease
- Total Solids
- Total Dissolved Solids (TDS)
- Total Suspended Solids (TSS)
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Chlorophenols
- Conductivity
- Dissolved Organic Carbon (DOC)
- Turbidity
- Biological Oxygen Demand (BOD)
- Dissolved Oxygen Content
- Metals
- Others as required

APPLIED CHEMISTRY

Powertech's Applied Chemistry laboratories have more than forty years' experience in testing, consultation, and applied research in the chemistry of insulating liquids, gases, and solids used in electrical equipment.

ABOUT POWERTECH LABS:

Powertech Labs Inc. is one of the largest testing and research laboratories in North America, situated in beautiful British Columbia, Canada. Our 11-acre facility offers 15 different testing labs for a one-stop-shop approach to managing utility generation, transmission and distribution power systems.

Outside of the utilities industry, Powertech provides routine testing capabilities, product development, research and consulting services to support an array of industrial-type operations, electrical equipment manufacturers and automotive original equipment manufacturers.

www.powertechlabs.com

FOR MORE INFORMATION CONTACT:

Stephen Varisco - 604.590.7462

Team lead, Applied Chemistry
Substations Technology & Testing
stephen.varisco@powertechlabs.com



Powertech