

Collection of chemical and isotope samples at various sites in America, Europe and Asia

Project Locations:	Alberta, NWT, India, and Germany
Client(s):	Cominco, County of Mettmann, Ocelot Energy Inc., KfW Bank, and others
Date Completed:	1973 to 2007
Project Budgets:	in excess of \$1,000,000



Taking water samples at a flowing borehole and a karst spring south of Great Slave Lake

Summary of projects

WDA has undertaken a large number of water sampling programs for inorganic, organic and isotope species in developed areas, the Arctic, at oil industry sites, under severe winter conditions, by means of zodiacs along wild rivers, and by helicopter and float planes. The chemical data were collected for major regional studies (i.e. Cominco) as well as for more local studies (i.e. Ocelot). Three major investigations were done expedition style without outside support. Several studies were done to outline the extent and flow directions of regional subsurface fluid flow systems.

Services Provided

- * Planning, and conduct of field projects.
- * Selection of analysis procedures and outside supervision of lab work in close cooperation with various laboratories.
- * Interpretation of chemical and isotope data.
- * Preparation of reports and publications.

Deliverables or Results

- * Reports for clients and preparation of publications if warranted by the client. Representation of clients at public hearings.
- * The isotope results of a regional study between the Peace River and Great Slave Lake were published in: Weyer, K.U., Krouse, H.R., and Horwood, W.C., 1979. Investigation of regional geohydrology south of Great Slave Lake, Canada, utilizing natural sulphur and hydrogen isotope variations. *Isotope Hydrology* 1978, Vol. 1, pp. 251-264, International Atomic Energy Agency, Vienna.