

GeoEnviroLogic Professional Development



Contaminated Site Investigation: Planning, Field Sampling, and Interpretation

- ▶ Day 1: Soil and Groundwater Media
- ▶ Day 2: Soil Vapour and Other Media

GeoEnviroLogic Professional Development Seminars on Contaminated Sites Topics

Contaminated Site Investigation: Planning, Field Sampling, and Interpretation

- ▶ **Day 1: Soil and Groundwater Media**
- ▶ **Day 2: Soil Vapour and Other Media**

June 4 and 5, 2008, 8:00 am to 4:30 pm
Holiday Inn Express Metrotown
Burnaby BC

Organized by:

▶ Dr. Reidar Zapf-Gilje, P.Eng.: Adj. Prof., Dept. Civil Eng., UBC; Chair, Roster Steering Committee; Contaminated Sites Approved Professional; RZG Consulting; GeoEnviroLogic Professional Development

▶ Dr. Loretta Li: Associate Professor, Dept. of Civil Eng., UBC

SEMINAR SYNOPSIS

This is a two-day classroom and field program; however, each day can be taken separately for those who wish to do so. The program involves practical aspects of collecting soil, soil vapour, groundwater, surface water, and ambient air samples at contaminated sites.

Topics covered will include development of sampling plans, selection of appropriate field methods, field demonstration of common sampling techniques, data QA/QC, and interpretation of results.

The seminar will assist those who want to learn or improve their field sampling skills; and those who are involved with review of site investigations and need to determine the adequacy of the resulting site characterization.

The contaminated site investigation course will include issues associated with the collection and analysis of data for characterization of common types of contaminants and exposure pathways.

PRESENTERS (in presentation order)

▶ Dr. Reidar Zapf-Gilje, P.Eng.: Adj. Prof., Dept. Civil Eng., UBC; Chair, Roster Steering Committee; Contaminated Sites Approved Professional; RZG Consulting

▶ Dr. Ian Hers, P.Eng.: Golder Associates Ltd.; Director, Science Advisory Board for Contaminated Sites, Contaminated Sites Approved Professional

▶ Dr. Adrian de Bruyn, R.P.Bio.: Golder Associates Ltd

MANUAL TABLE OF CONTENTS

This manual is organized by presenter as above. Each Presenter has one section, defined by a tab, containing all of his or her presentations for both days. Individual presentation within each presenter's section are separated by a colour sheet of paper.

SEMINAR OUTLINE

Day 1: June 4, 2008

- 8:00-8:15 Refreshments and Introductions
- 8:15-10:00 **Reidar Zapf-Gilje**
- Conceptual Model and Sampling Strategy for Soil and Groundwater
- Soil Sampling (design, methods, and tools)
- 10:00-10:15 Refreshment Break
- 10:15-12:15 **Ian Hers**
- Groundwater Sampling (design, methods, and tools)
- 12:15-1:00 Box Lunch and Travel to Site
- 1:00-4:00 **Field Demonstrations**
- Soil and Groundwater Sampling
- 4:00-4:30 **Wrap-up and Discussion**

SEMINAR OUTLINE

Day 2: June 5, 2008

- 8:00-8:15 Refreshments and Introductions
- 8:15-9:00 **Reidar Zapf-Gilje**
- Class Exercise
- Data Validation and Interpretation
- 9:00-10:00 **Ian Hers**
- Sampling of Soil Vapour and Ambient Air
- 10:00-10:15 Refreshment Break
- 10:15-11:15 **Ian Hers**
- Sampling of Soil Vapour and Ambient Air cont'd
- 11:15-12:15 **Adrian de Bruyn**
- Sampling of Sediment, Surface Water, and Biota
- 12:15-1:00 Box Lunch and Travel to Site
- 1:00-4:00 **Field Demonstration**
- Soil Vapour (mainly),
- Sediment/Surface Water (overview)
- 4:00-4:30 **Wrap-up and Discussion**