

GeoEnviroLogic Professional Development
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**Contaminated Sites Issues
for Oil and Gas Sites**

May 8 and 9, 2008 in Fort St. John, BC

**GeoEnviroLogic Professional Development
Technical Seminars in environmental science and
contaminated site investigation, remediation and risk
assessment**

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Contaminated Sites Issues for Oil and Gas Sites

May 8 and 9, 2008 from 8:00 am to 4:30 pm at the Quality Inn
Northern Grand Hotel and Conference Center

9830 100th Avenue
Fort St. John BC VIJ 1Y5

**Day 1: Site Investigation, Remediation, Risk Assessment
and Restoration - Overview of Regulatory Requirements
and Scientific Methods**

**Day 2: Obtaining Certificates of Restoration for
Contaminated Oil and Gas Sites - A Workshop featuring
Regulatory Updates and Case Studies**

SEMINAR SYNOPSIS – DAY 1

Day 1: Site Investigation, Remediation, Risk Assessment and Restoration - Overview of Regulatory Requirements and Scientific Methods

Day 1 provides an overview of the scientific, regulatory and management processes for contaminated sites, including oil and gas sites. The seminar is a good primer for those who are new to the contaminated sites regime in BC, and will provide the necessary background for the more detailed oil and gas-specific discussions featured on Day 2. Topics will include: regulatory aspects of contaminated sites and oil & gas restoration, contaminant fate and transport, scientific approach to site investigation and management process of remediation, and application of human health and ecological risk assessment. Examples will be presented.

LEARNING OBJECTIVE

To gain a sound understanding of the scientific, regulatory and management principles applied at contaminated sites.

PRESENTERS, in presentation order

- ✓ Reidar Zapf-Gilje, PhD, PEng, Approved Professional, Chair – Roster Steering Committee, Adjunct Professor – UBC Civil Eng, GeoEnviroLogic Consulting and Professional Development

- ✓ Peggy Evans, PGeo, Senior Contaminated Sites Officer - Risk Assessment and Remediation Unit - Ministry of Environment

- ✓ Guy Patrick, PEng, Approved Professional, Member – Roster Steering Committee, Senior Hydrogeologist and Principal - Golder Associates

- ✓ Trish Miller , RPBio, Approved Professional, Golder Associates

MANUAL TABLE OF CONTENTS

This manual is organized into two primary sections: one for Day 1 and one for Day 2. Section one is further organized by presenter as listed above. Each Presenter has one section, defined by a tab. Within each presenter's section, individual presentations, if more than one, are separated by a colour sheet of paper.

SEMINAR OUTLINE – DAY 1

8:15-10:00 Part 1 R. Zapf-Gilje

•Contamination Characteristics, Site Investigation and Site Management Process

10:00-10:15 Refreshment Break

10:15-12:00 Parts 2 and 3

•Contaminated Sites Regulations P.Evans

•Fate and Transport: Groundwater G. Patrick

12:00-1:00 Lunch (Provided)

1:00-2:30 Part 4 T. Miller

•Risk Assessment Framework and Principles: Human Health and Ecological

2:30-2:45 Refreshment Break

2:45-3:30 Part 3 Cont'd

•Fate and Transport: Soil Vapour R. Zapf-Gilje

3:30-4:15 Part 5

•Site Remediation G. Patrick

4:15-4:30 Wrap-Up and Discussion