



**Hatfield**  
CONSULTANTS

Environmental Specialists Since 1974

# CONTAMINANT MONITORING

*Hatfield helps you determine the extent and nature of contamination and develop appropriate mitigation and monitoring plans*

**WE HELP TO REDUCE OR ELIMINATE CONTAMINANTS THROUGH A RANGE OF SERVICES THAT INCLUDE:**

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Chemical contamination monitoring

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Sampling program design and implementation

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Environmental effects monitoring

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Developing and maintaining POPs inventories

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Developing and implementing mitigation strategies

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Capacity-building and training

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Human and environmental risk assessment

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Communication and awareness raising programs

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[WWW.HATFIELDGROUP.COM](http://WWW.HATFIELDGROUP.COM)

Hatfield is a leading expert in the investigation of Persistent Organic Pollutants (POPs) and long-term trend-monitoring. With over twenty years of experience, we have developed time-tested procedures for site prioritization, environmental pathway identification and health-risk assessment, and monitoring and mitigation strategies. Hatfield has conducted Level 1 surveys of landmines and Explosive Remnants of War (ERW) contaminant sites and develop protocols for site clearing and rehabilitation. We have conducted contamination-related analysis and training programs in Canada, Cambodia, China, Indonesia, Lao PDR, Malaysia, Mongolia, the Philippines, Thailand, and Viet Nam.

## FEATURED PROJECTS



### COASTAL DIOXIN/FURAN MONITORING PROGRAMS

Since 1989, Hatfield has carried out annual dioxin and furan trend-monitoring programs for the pulp and paper industry in British Columbia, Canada. Trends in the concentration of dioxins and furans in biological tissues and sediments were correlated to changes in effluent treatment and the bleaching process. These programs constitute one of the most comprehensive and long-term dioxin monitoring studies ever undertaken.



### AGENT ORANGE INVESTIGATIONS IN VIET NAM

For over 20 years, Hatfield has been at the forefront of investigations into Agent Orange contamination in Viet Nam. We have collaborated closely with Vietnamese health authorities to measure levels of dioxins in the environment that resulted from spraying of dioxin-contaminated herbicide (primarily Agent Orange), from 1961 to 1971. In partnership with our Vietnamese colleagues, mitigation and remediation strategies were developed to protect local populations from exposure to dioxin in the environment.



### POPS REGIONAL CAPACITY-BUILDING PROGRAM IN SOUTH-EAST ASIA

Hatfield implemented the Regional Capacity Building Program for Health Risk Management of Persistent Organic Pollutants (POPs) in South-East Asia. The key objective of the program was to improve the ability of government agencies in the region to manage POPs and POPs-like chemicals using a health risk-based approach. A second objective was to improve inter-governmental cooperation with regard to hazardous chemicals in the region. We have also created a web-based risk-assessment toolkit for POPs, which is available at: [www.popstoolkit.com](http://www.popstoolkit.com).

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## WHY HATFIELD CONSULTANTS?

Established in 1974 and based in Vancouver, Canada, Hatfield Consultants has built a worldwide reputation in environmental services with over 4,000 projects in Canada, Asia, Africa, South America and Europe. With company offices in Canada, Indonesia, Laos, and Botswana, as well as business partners in Chile and Thailand, we are well positioned to respond to your individual project needs and requirements – wherever you are.

*We help you apply best environmental practices and contribute to a sustainable future.*