

## **Environmental Organic Pollutants: An Overview of Natural Resources Canada Research and Opportunities**

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Natural Resources Canada (NRCan) collaborates with Government, academia and industry to address historical, current and emerging organic pollutants across multiple natural resource development sectors. Specific areas of interest, and active research studies, include oil spill within a variety of scenarios including (i) Offshore / deep sea, near-shore and inland, (ii) Arctic oil spill fate and behaviour, (iii) Hazardous and Noxious Substances (HNS) and (iv) Oil pipeline leakage simulations. Multi-disciplinary studies are used to physically and/or numerically simulate an accidental substance release and to assess the migration, behaviour and fate of oils and refined products using a combination of bench- and pilot-scale experiments. Acquired data and knowledge may then be used to support the development of improved leak detection, spill response methods, remediation of oil-affected ecosystems, and to inform policy development.

This presentation will summarize the context, approach, activities and findings of several key spill-related research programs within Natural Resources Canada, and specifically CanmetENERGY Devon, Alberta. A forward view of potential opportunities for collaborative research will be presented along with ongoing options for students and researchers to gain valuable experience at CanmetENERGY Devon.

### **Keywords**

Oil spill, simulation, leak detection