

PRESENTATIONS FROM THE WORKSHOP ON ROLE OF GEOCHEMICAL DATA IN ENVIRONMENTAL AND HUMAN HEALTH RISK ASSESSMENT; MARCH 17-18 2010, HALIFAX, NOVA SCOTIA

Note: Some titles of presentations listed below may differ from those listed in the Workshop agenda in the file entitled " 01_1_Introduction_Agenda_Other" on account of late-stage changes.

| Directory | File Name | Author(s) | Title or Explanation |
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| 01_Introduction | | | Background Information on the Workshop |
| 01_Introduction | 01_1_Introduction_Agenda_Other | Inez M. Kettles and Andrew N. Rencz, Natural Resources Canada - Geological Survey of Canada | Booklet from Workshop with agenda, participant list, abstracts and background information on soils and surficial materials |
| 01_Introduction | 01_2_Introduction_Notes | Gerry McCormick, Environment Canada | Notes from Workshop discussions |
| 01_Introduction | 01_3_Introduction_Content | | List of contributions in Open File 6645 |
| 02_Recommendations | | | Recommendations for Methodology for Acquiring and Analyzing Soil Geochemical Data |
| 02_Recommendations | 02_1_Recommendations | Andrew N. Rencz, Robert. G. Garrett, Eric C. Grunsky, R.A. Klassen, Rick J. McNeil, and I.M. Kettles, Natural Resources Canada - Geological Survey of Canada | Summary of recommendations for acquiring and analyzing soil geochemical data for estimating the range of background concentrations for risk assessments |
| 03_Perspectives | | | Partner Perspectives on the Role of Geochemical Data |
| 03_Perspectives | 03_1_Mroz_Perspective | Rita Mroz, Environment Canada | Federal Contaminated Sites Action Plan (FCSAP) - Ecological risk assessment and background soils data |
| 03_Perspectives | 03_2_Longpre_Perspective | Darcy Longpre, Health Canada | Health Canada perspective: The role of geochemical data in CCME soil quality guidelines and human health risk assessment |
| 03_Perspectives | 03_3_Bonvalot_Perspective | Yvette Bonvalot, Health Canada | CCME Soil Quality Guidelines and Health Canada perspectives - Estimated Daily Intakes (EDIs) |

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| 03_Perspectives | 03_4_Rae_Perspective | David A. Rae, Amec | Role of geochemical data in ecological and health risk assessment - A consultant's perspective |
| 04_Geochemical Landscapes | | | Information on Geological Setting and Spatial Variation in Soil Geochemistry |
| 04_Geochemical Landscapes | 04_1_Klassen_Landscapes | Rodney A. Klassen, Natural Resources Canada - Geological Survey of Canada | Geoscience in ecological and human health risk assessment |
| 04_Geochemical Landscapes | 04_2_Goodwin_Landscapes | Terry A. Goodwin, Nova Scotia Department of Natural Resources | Geology of the Maritime Provinces |
| 04_Geochemical Landscapes | 04_3_Grunsky_Landscapes | Eric C. Grunsky and Rick J. McNeil, Natural Resources Canada - Geological Survey of | Spatial variation - Horizontal and vertical |
| 05_Biogeochemical Variation | | | Background Information on Biogeochemical Variation in the Landscape |
| 05_Biogeochemical Variation | 05_1_Rencz_Biogeochemical | Andrew N. Rencz, Natural Resources Canada - Geological Survey of Canada | Biogeochemical Variation |
| 05_Biogeochemical Variation | 05_2_Kettles_Biogeochemical | Inez M. Kettles, Natural Resources Canada - Geological Survey of Canada | Note on eco-classification systems for Canada |
| 06_Soil Sampling | | | Methodology for Site Selection and Field Sampling of Soils |
| 06_Soil Sampling | 06_1_McNeil_Sampling | Rick J. McNeil, Natural Resources Canada - Geological Survey of Canada | Field sampling protocols |
| 07_Soil Sample Analysis | | | Methodology for the Preparation and Chemical Analysis of Soil Samples |
| 07_Soil Sample Analysis | 07_1_McNeil_Analysis | Rick J. McNeil and Robert G. Garrett, Natural Resources Canada - Geological Survey of Canada | Soil sample preparation, analytical techniques and QA/QC |
| 07_Soil Sample Analysis | 07_2_Parsons_Analysis | Michael B. Parsons, Natural Resources Canada - Geological Survey of Canada | Analytical methods used to characterize the solid phase speciation of metal(loid)s |

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| 08_Geochemical Background | | | Methodology for Estimating Geochemical Background |
| 08_Geochemical Background | 08_1_Garrett_Background | Robert G. Garrett and Grunsky, E.C., Natural Resources Canada - Geological Survey of Canada | Geochemical background - What it is and how it varies |
| 09_Data Availability | | | Sources of Geochemical Data for Soil and Other Surficial Materials |
| 09_Data Availability | 09_1_Kettles_Data | Inez M. Kettles, Wendy A. Spirito, and Andrew N. Rencz, Natural Resources Canada - Geological Survey of Canada | Availability of geochemical data via the Geoscience Data Repository |
| 10_Case Studies | | | Examples of Case Studies Involving Soil data and Estimation of Geochemical Background |
| 10_Case Studies | 10_1_Woodruff_Case | Laurel G. Woodruff, United States Geological Survey | North American Geochemical Landscapes - 2010 USGS Perspective |
| 10_Case Studies | 10_2_Goodwin_Case | Terry A. Goodwin, Nova Scotia Department of Natural Resources | Arsenic in Nova Scotia |
| 10_Case Studies | 10_3_Parsons_Case | Michael B. Parsons and Megan E. Little, Geological Survey of Canada; Heather E. Jamieson and Stephen R. Walker, Queen's University; and Terry A. Goodwin Nova Scotia Department of Natural Resources | Assessing and reducing risks at the Montague and Goldenville gold districts in Nova Scotia |
| 10_Case Studies | 10_4_Garrett_Case | Robert G. Garrett, Natural Resources Canada - Geological Survey of Canada | The Tri-National (2007) Maritimes data: Some important and interesting observations |
| 10_Case Studies | 10_5_Dodd_Case | Matt Dodd, Royal Roads University | Metal bioaccessibility in Tri-National Survey soil samples |
| 10_Case Studies | 10_6_Grunsky_Case | Eric C. Grunsky, Natural Resources Canada - Geological Survey of Canada | Geochemical variability in surficial materials based on Canada-wide and New Brunswick datasets |