

Site Biogeochemical Processes and Microcosm Studies

Environmental Remediation Sciences Program 4th Annual PI Meeting – April 20-23, 2009,
Lansdowne, VA

Scott C. Brooks, Environmental Sciences Division, Oak Ridge National Laboratory, P.O. Box 2008, MS6038, Oak Ridge, TN 37831-6038; (865) 574-6398; brookssc@ornl.gov

George R. Southworth, Environmental Sciences Division, Oak Ridge National Laboratory, P.O. Box 2008, MS6036, Oak Ridge, TN 37831-6036; (865) 574-7240; southworthgr@ornl.gov

Craig C. Brandt, Biosciences Division, Oak Ridge National Laboratory, P.O. Box 2008, MS6038, Oak Ridge, TN 37831-6038; (865) 574-1921; brandtcc@ornl.gov

Ralph R. Turner, RT Geosciences, Inc., P.O. Box 421, Squamish BC, Canada V0N 3G0; (604) 815-8219; rrtgeo@direct.ca

Site investigation and geochemical modeling provides key information on major chemical species and microbial communities involved in Hg biogeochemical transformations in water and sediment. Our attention is focused on EFPC where dynamic interaction occurs among groundwater, surface water, and sediment. Field studies will focus on identifying key processes and on establishing the range of geochemical conditions in which critical transformations take place. The field information obtained will be used in Task 2 for abiotic, and in Task 3 for microbial genetic studies. A number of subtasks will be pursued to fulfill objectives