PREFACE

Environmental surveillance on and around the Hanford Site, located in southeastern Washington State, is conducted by the Pacific Northwest National Laboratory (PNNL), which is operated by Battelle for the U.S. Department of Energy. The data collected provide a historical record of radionuclide and radiation levels attributable to natural causes, worldwide fallout, and Hanford operations. Data are also collected to monitor several chemicals and metals in Columbia River water and sediment. For more information regarding the 2004 sampling schedule for the Surface Environmental Surveillance Project (SESP) and Drinking Water Monitoring Project, refer to L. E. Bisping, Hanford Site Environmental Surveillance Master Sampling Schedule for Calendar Year 2004 (PNNL-14553, Pacific Northwest National Laboratory, Richland, Washington).

PNNL publishes an annual environmental report for the Hanford Site each calendar year. The Hanford Site Environmental Report for Calendar Year 2004 describes the site mission and activities, general environmental features, radiological and chemical releases from operations, status of compliance with environmental regulations, status of programs to accomplish compliance, site cleanup and remediation efforts, and environmental monitoring activities and results. Sections of the annual environmental report include tables and summaries of offsite and onsite environmental surveillance data collected by PNNL during 2004. This data report contains the actual raw data used to create those tables and summaries. In addition to providing raw data collected during routine sampling efforts in 2004, this data report also includes seep data collected by the PNNL Groundwater Performance Assessment Project, and data from collaborative studies performed by PNNL during 2004 under partial support by the SESP. In some cases, analytical results may not have been received in time to include in the annual report or changes may have occurred to the data following publication.

For further information regarding 2004 Hanford Site environmental management and cleanup activities and compliance issues, refer to T. M. Poston, R. W. Hanf, and R. L. Dirkes, 2005, Hanford Site Environmental Report for Calendar Year 2004 (PNNL-15222, Pacific Northwest National Laboratory, Richland, Washington), Internet address: http://hanford-site.pnl.gov/envreport or contact T. M. Poston, Pacific Northwest National Laboratory, P.O. Box 999, Richland, Washington 99352 (ted.poston@pnl.gov).