

References

Note: In this report we refer to a number of documents (e.g., plans, reports) that are intended for internal use. For the most part, these documents function as a means of communication between governmental agencies and the tenant companies on the Oak Ridge Reservation or as the means by which analytical laboratories deliver results. As such, these documents are not readily available to the public and therefore are not cited in the list of references.

- Alter, H. 1986. A Glossary of Terms in Nuclear Science and Technology, American Nuclear Society, La Grange Park, Illinois.
- ANSI. 1969. *Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities*. ANSI N13.1-1969R. American National Standards Institute, Washington, D.C.
- ATSDR. 2006. Public Health Assessment: Evaluation of Potential Exposures to Contaminated Off-Site Groundwater from the Oak Ridge Reservation. Agency for Toxic Substances and Diseases Registry. Atlanta, Ga.
- B&W Y-12. 2007. Wastewater Control Report for the Y-12 National Security Complex, Oak Ridge, Tennessee. Y/TS-1466/R2. B&W Technical Services Y-12, Oak Ridge, Tennessee.
- B&W Y-12. 2008a. *Annual Storm Water Report for the Y-12 National Security Complex, Oak Ridge, Tennessee*. Y/TS-2035, Y-12 National Security Complex, Oak Ridge, Tennessee.
- B&W Y-12. 2008b. *Calendar Year 2007 Groundwater Monitoring Report, U.S. Department of Energy Y-12 National Security Complex*, Oak Ridge, Tennessee. Y/SUB/08-063119/1. Y-12 National Security Complex, Oak Ridge, Tennessee.
- BJC. 2006. Sampling and Analysis Plan for the Water Resources Restoration Program for Fiscal Year 2007 Oak Ridge Reservation, Oak Ridge, Tennessee. BJC/OR-2518. Bechtel Jacobs Company LLC, Oak Ridge, Tennessee.
- BJC. 2007. Sampling and Analysis Plan for the Water Resources Restoration Program for Fiscal Year 2008 Oak Ridge Reservation, Oak Ridge, Tennessee. BJC/OR-2887. Bechtel Jacobs Company LLC, Oak Ridge, Tennessee.
- BJC. 2008. Calendar Year 2007, Resource Conservation and Recovery Act Annual Monitoring Report for the U. S. Department of Energy Y-12 National Security Complex. BJC/OR-2988. Bechtel Jacobs Company, LLC, Oak Ridge, Tennessee.
- Bechtel National, Inc., et al. 1992. Site Characterization Summary Report for Waste Area Grouping 1 at Oak Ridge National Laboratory, Oak Ridge, Tennessee, Volume 4, Appendix B: WAG 1 Groundwater, Surface Water, and Sediment. DOE/OR-1043/V4&D1. U.S. Department of Energy, Oak Ridge, Tennessee.
- Birdwell, K. R. 1996. "A Climatology of Winds over a Ridge and Valley Terrain within the Great Valley of Eastern Tennessee." Master's Thesis, Department of Geosciences, Murray State University, Murray, Kentucky.
- Bonine. 2004. Data Quality Objectives for the UT-Battelle Groundwater Surveillance Monitoring Program at ORNL. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Bonine. 2007. *UT-Battelle Sampling and Analysis Plan for Surveillance Monitoring of Exit Pathway Groundwater at Oak Ridge National Laboratory*. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Bonine. 2008. Summary of Groundwater Monitoring Activities at the High Flux Isotope Reactor Site: Final Report. ORNL/TM-2008/14. Oak Ridge National Laboratory, Oak Ridge, Tennessee.

- Bonine, Ketelle, and Trotter. 2007. Operational Groundwater Monitoring Plan for the Spallation Neutron Source Site (unpublished).
- Bowen, B. M., J. A. Baars, and G. L. Stone. 2000. "Nocturnal Wind Shear and its Potential Impact on Pollutant Transport." Journal of Applied Meteorology 39 (3), 437–45.
- Carlson, M. A., and R. B. Stull. 1986. "Subsidence in the Nocturnal Boundary Layer." Journal of Climate and Applied Meteorology 25, 1088–99.
- Chan, P. K., G. P. O'Hara, and A. W. Hayes. 1982. "Principles and Methods for Acute and Subchronic Toxicity." *Principles and Methods of Toxicology*. Raven Press, New York.
- DOE. 1989. Radioactive Decay Data Tables: A Handbook of Decay Data for Application to Radioactive Dosimetry and Radiological Assessments. DOE/TIC-11026. U.S. Department of Energy, Washington, D.C.
- DOE. 1998. Report on the Remedial Investigation of the Upper East Fork Poplar Creek Characterization Area at the Oak Ridge Y-12 Plant, Oak Ridge, Tennessee. U.S. Department of Energy, Office of Environmental Management, Oak Ridge, Tennessee (DOE/OR/01-1641/V1-V4&D2).
- DOE. 2001. Cultural Resource Management Plan, DOE Oak Ridge Reservation, Anderson and Roane Counties, Tennessee, DOE/ORO 2085. U.S. Department of Energy, Washington, D.C.
- DOE. 2002. DOE Standard: A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota. DOE-STD-1153-2002. U.S. Department of Energy, Washington, D.C.
- DOE. 2004. The Public Involvement Plan for Comprehensive Environmental Response, Compensation, and Liability Act Activities at the U.S. Department of Energy Oak Ridge Reservation (DOE/OR/01/2163&D2).
- DOE. 2005. Compliance Plan, National Emission Standards for Hazardous Air Pollutants for Radionuclides on the Oak Ridge Reservation, Oak Ridge, Tennessee. DOE/ORO/2196, U.S. Department of Energy, Washington, D.C.
- DOE. 2006a. Cleanup Progress Report FY 2006 Annual Report to the Oak Ridge Community. DOE/OR-2223. U.S. Department of Energy, Washington, D.C.
- DOE. 2006b. Final Phase Construction Completion Report for the Hydraulic Isolation at Solid Waste Storage Area 6 at the Oak Ridge National Laboratory, Oak Ridge, Tennessee. DOE/OR/01-2285&D1. U.S. Department of Energy, Washington, D.C.
- DOE. 2007a. 2006 Remediation Effectiveness Report/Second Reservation-wide CERCLA Five Year Review for the U.S. Department of Energy Oak Ridge Reservation, Oak Ridge, Tennessee. DOE/OR/01-2289&D3. U.S. Department of Energy, Washington, D. C.
- DOE. 2007b. Environmental Monitoring on the Oak Ridge Reservation: 2007 Results. DOE/ORO/2263. U.S. Department of Energy Oak Ridge Office, Oak Ridge, Tennessee. Oak Ridge National Laboratory (UT-Battelle LLC), Oak Ridge Y-12 National Security Complex (BWXT Y-12, L.L.C.), and East Tennessee Technology Park (Bechtel Jacobs Company LLC), Oak Ridge, Tennessee.
- DOE. 2007c. Environmental Monitoring Plan for the Oak Ridge Reservation. DOE/OR-1066/R5. U.S. Department of Energy Oak Ridge Office, Oak Ridge, Tennessee.
- DOE. 2008. 2008 Remediation Effectiveness Report for the U.S. Department of Energy Oak Ridge Reservation, Oak Ridge, Tennessee, Volume 2: Data and Evaluations. DOE/OR/01-2366&D/\V2. U.S. Department of Energy, Washington, D. C.
- Eckman, R. M. 1998. "Observations and Numerical Simulations of Winds within a Broad Forested Valley." Journal of Applied Meteorology 37, 206–19.

- EPA. 1989. Risk Assessments Methodology, Environmental Impact Statement, NESHAPs for Radionuclides, Background Information. Vol. 1. EPA/520/1-89-005. U.S. Environmental Protection Agency, Washington, D.C.
- EPA. 1992. NPDES Storm Water Sampling Guidance Document. U.S. Environmental Protection Agency, Washington, D.C.
- EPA. 1995 and 1998. Compilation of Air Pollutant Emission Factors AP-42, Fifth Edition, Volume 1: Stationary Point and Area Sources. U.S. Environmental Protection Agency, Research Triangle Park, N.C. January 1995 and September 1998.
- EPA. 1997. *Exposure Factors Handbook, Vol. II. Food Ingestion Factors*, EPA/600/P-95/002Fb, U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C.
- EPA. 1999. Cancer Risk Coefficients for Environmental Exposure to Radionuclide: Updates and Supplements. Federal Guidance Report No. 13, updated 2002. www.epa.gov/rpdweb00/federal/techdocs.html#report13
- Hamby, D. M. 1991. *LADTAP XL: An Improved Electronic Spreadsheet Version of LADTAP II*. DE93003179. Westinghouse Savannah River Company, Aiken, South Carolina.
- International Commission on Radiological Protection (ICRP). 1996. Age-Dependent Doses to the Members of the Public from Intake of Radionuclides Part 5, Compilation of Ingestion and Inhalation Coefficients. ICRP Publication 72, Elsevier.
- Kossman, M., and A. P. Sturman. 2002. "Pressure Driven Channeling Effects in Bent Valleys." *Journal of Applied Meteorology* **42**, 151–58.
- Lewellen, D. C., and W. S. Lewellen. 2002. "Entrainment and Decoupling Relations for Cloudy Boundary Layers." *Journal of the Atmospheric Sciences* **59**, 2966–86.
- LMES. 1997. Wetland Survey of Selected Areas in the Oak Ridge Y-12 Plant Area of Responsibility, Oak Ridge, Tenn. Y/ER-27. Lockheed Martin Energy Systems, Inc., Oak Ridge, Tennessee.
- LMES. 1999. Technical Explanation for the Detected Increase in Nickel in Groundwater Monitoring Well GW-305 at the Industrial Landfill IV, IDL-47-103-0075, Department of Energy Y-12 Plant, Anderson County, TN. (Y/TS-1774) Environment, Safety, and Health Organization, Y-12 National Security Complex, Oak Ridge, Tennessee.
- MMES. 1993. *Identification and Characterization of Wetlands in the Bear Creek Watershed*. Y/TS-1016. Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee.
- Monti, P., H. J. S. Fernando, M. Princevac, W. C. Chan, T. A. Kowalewski, and E. R. Pardyjak. 2002. "Observations of Flow and Turbulence in the Nocturnal Boundary Layer over a Slope." *Journal of the Atmospheric Sciences* **59**, 2513–34.
- Myrick, T. E., et al. 1981. *State Background Radiation Levels: Results of Measurements Taken During* 1975–1979. ORNL/TM-7343. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- National Park Service. 2003. *National Register of Historic Places*. http://www.nationalregisterofhistoricplaces.com/.
- NCRP. 1987. *Ionizing Radiation Exposure of the Population of the United States*. NCRP Report No. 93. National Council on Radiation Protection and Measurements, Washington, D.C.
- NCRP. 1989. 1989 Exposure of the U.S. Population from Diagnostic Medical Radiation. NCRP Report No. 100. National Council on Radiation Protection and Measurements, Bethesda, Maryland.
- NOAA. 2006. Local Climatological Data Annual Survey with Comparative Data, Oak Ridge, Tenn.

 National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville,
 North Carolina.

- NRC. 1977. Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50. Regulatory Guide 1.109, Appendix I, Revision 1. NRC Office of Standards Development, Nuclear Regulatory Commission, Washington, D.C.
- Parker. 2007. The Energy Management and Implementation Plan for Oak Ridge National Laboratory FY 2007. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Parr, P. D., and J. F. Hughes. 2006. *Oak Ridge Reservation Physical Characteristics and Natural Resources*. ORNL/TM-2006/110, UT-Battelle, Oak Ridge, Tennessee.
- Rosensteel, B. 1996. Wetland Survey of the X-10 Bethel Valley and Groundwater Operable Units at Oak Ridge National Laboratory. ORNL/ER-350, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Smith, R. B., S. Skubis, J. D. Doyle, A. S. Broad, C. Kiemle, and H. Volkert. 2002. "Mountain Waves over Mont Blanc: Influence of a Stagnant Boundary Layer." *Journal of the Atmospheric Sciences* **59** (13), 2073–92.
- TDEC. 2002. *The Status of Water Quality in Tennessee*. 305b Report. Tennessee Department of Environment and Conservation, Division of Water Pollution Control, Nashville, Tennessee.
- TDEC. 2004. General Water Quality Criteria, Criteria of Water Uses—Toxic Substances. TDEC 1200-4-03 (j). Tennessee Department of Environment and Conservation Tennessee Water Quality Control Board, Division of Water Pollution Control.
- Tsakeres, F. S. 1980. *Radiological Assessment of Residences in the Oak Ridge Area*. ORNL/TM-7392/V1. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- TVA. 2006. B. Stephens, L. Didier, A. Griffin, and M. Fly. *Recreation Use on Melton Hill Reservoir*. Tennessee Valley Authority, Knoxville, Tennessee.
- TVA. 2007. B. Stephens, A. Griffin, and M. Fly. *Recreation Use on the Chickamauga Reservoir*, Tennessee Valley Authority, Knoxville, Tennessee..
- USFWS. 1995. *Preliminary Estimates of Waterfowl Harvest and Hunter Activity in the United States*. U.S. Fish and Wildlife Service, Washington, D.C.
- Van De Weil, B. J. H., A. F. Moene, R. J. Ronda, H. A. R. De Bruin, and A. A. M. Holtslag. 2002. "Intermittent Turbulence and Oscillations in the Stable Boundary Layer over Land. Part II: A System Dynamics Approach." *Journal of the Atmospheric Sciences* **59**, 2567–81.
- Whiteman, C. D. 2000. *Mountain Meteorology: Fundamentals and Applications*. Oxford University Press, New York.
- Whiteman, C. D., S. Zhong, W. J. Shaw, J. M. Hubbe, and X. Bian. 2001. "Cold Pools in the Columbia River Basin." *Weather and Forecasting* **16**, 432–47.
- WSRC. 1994. Savannah River Site Environmental Report for 1993. Summary Pamphlet. SSRC-TR-076. Westinghouse Savannah River Company, Aiken, South Carolina.
- Y-12. 2005. Y-12 National Security Complex Quality Assurance Project Plan for National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Radionuclide Emission Measurements. Oak Ridge Y-12 National Security Complex, Oak Ridge, Tennessee.
- Y-12. 2006. *Radiological Monitoring Plan for Y-12 Complex Surface Water*. Y/TS-1704R1. Oak Ridge Y-12 National Security Complex, Oak Ridge, Tennessee.
- Zurawski, Ann. 1978. Summary Appraisals of the Nation's Ground-Water Resources—Tennessee Region. U.S. Geological Survey Professional Paper 813-L.