



3.0 Facility-Related Monitoring

C. J. Perkins

The following sections provide information about facility-related environmental monitoring programs at the Hanford Site, including effluent monitoring (Section 3.1) and near-facility environmental monitoring (Section 3.2).

The monitoring of effluents and contaminants at Hanford Site facilities is necessary to determine the effects these materials may have on the public, workers at the site, and the environment. Effluent monitoring is conducted by the various site contractors at their facilities pursuant to requirements in DOE Order 5400.1. At the Hanford Site, effluent monitoring includes (1) collecting samples for analyses, (2) measuring liquid and airborne effluents to characterize and quantify contaminants released to the environment, (3) providing information to assess the potential impact to the public,

(4) providing a means to control effluents at or near the point of discharge, and (5) determining compliance with applicable standards and permit requirements.

Near-facility environmental monitoring consists of routine monitoring of environmental media near facilities that have the potential to discharge or have discharged, stored, or disposed of radioactive or hazardous contaminants. Monitoring locations are generally associated with major, nuclear-related installations, waste storage and disposal units, and remediation efforts.

Additional program sampling and effluent information is contained in *Hanford Site Near-Facility Environmental Monitoring Data Report for Calendar Year 2001* (PNNL-13910, APP. 2) and in *Environmental Releases for Calendar Year 2001* (HNF-EP-0527-11).