DOE/OR-1066/R5

ENVIRONMENTAL MONITORING PLAN FOR THE OAK RIDGE RESERVATION

UNITED STATES DEPARTMENT OF ENERGY OAK RIDGE OPERATIONS OFFICE

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Environmental Monitoring Plan for the Oak Ridge Reservation

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PREFACE

Controlled copies of the *Environmental Monitoring Plan for the Oak Ridge Reservation United States Department of Energy Oak Ridge Operations Office*, DOE/OR-1066/R5, are available on the BWXT Y-12, L.L.C., internal web site at: http://www-internal1.y12.org/eco/env-com.htm. *General Environmental Protection Program*, DOE Order 5400.1, requires that this plan be prepared and that the plan be reviewed annually and updated as needed.

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Acronyms

AIHA	American Industrial Hygiene Association
ALARA	as low as reasonably achievable
AMAD	activity median aerodynamic diameter
ARAR	applicable or relevant and appropriate requirement
ASER	Annual Site Environmental Report
ASME	American Society of Mechanical Engineers
ASO	Analytical Services Organization
ASTM	American Society of Testing and Materials
BCV	Bear Creek Valley
BJC	Bechtel Jacobs Company, LLC
BMAP	Biological Monitoring and Abatement Program
BMP	best management practice
BOA	basic ordering agreement
CDI	chronic daily intake
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CNF	Central Neutralization Facility
CWA	Clean Water Act
CYRTF	Coal Yard Runoff Treatment Facility
DCF	dose conversion factor
DCG	derived concentration guideline
DI	daily intake
DMR	discharge monitoring report
DOE	U.S. Department of Energy
DOE-EM	Department of Energy-Environmental Management
DOE-O	Department of Energy Oversight Division
DQO	data quality objective
DRE	destruction and removal efficiency
EA	environmental assessment
EC	environmental compliance
EDE	effective dose equivalent
EM	Environmental Management
EMMIS	Environmental Monitoring Management Information System
EMP	Environmental Monitoring Plan
EMS	environmental management system
EPA	U.S. Environmental Protection Agency
EP&WS	Environmental Protection & Waste Services
ER	environmental restoration
ESH&Q	Environmental Safety, Health and Quality
ESLIMS	Energy Systems Laboratory Information System
ETTP	East Tennessee Technology Park
FFA	Federal Facility Agreement
FFCA	Federal Facilities Compliance Agreement
GWPP	Groundwater Protection Program

Acronyms
(continued)

GWQAR	Groundwater Quality Assessment Reports
HFIR	High Flux Isotope Reactor
HQ	hazard quotient
ICP	inductively coupled plasma
ICPT	Integrated Contractor Procurement Team
ISC	Industrial Source Complex
ISCLT	Industrial Source Complex, Long Term
ISMS	Integrated Safety Management System
ISO	International Organization for Standardization
IWQP	Integrated Water Quality Program
LCR	lowest concentration reported
LQAP	Laboratory Quality Assurance Plan`
MDL	method detection limit
N/A	not applicable
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIST	National Institute of Standards and Technology
NNSA	National Nuclear Security Administration
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRC	Nuclear Regulatory Commission
NRWTF	Nonradiological Wastewater Treatment Facility
OECD	Office of Environmental Compliance and Documentation
OREIS	Oak Ridge Environmental Information System
ORNL	Oak Ridge National Laboratory
ORO	Oak Ridge Operations
ORR	Oak Ridge Reservation
OU	operable unit
PAM	perimeter air monitor
PCB	polychlorinated biphenyl
PEMS	Project Environmental Management System
QA	quality assurance
QAP	quality assurance plan
QC	quality control
QPP	quality program plan
RAD-BCG	Radionuclide Biota Concentration Guide
RCRA	Resource Conservation and Recovery Act
RI/FS	remedial investigation/feasibility study
RMP	radiological monitoring plan
ROD	Record of Decision
SAIC	Science Applications International Corporation
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act

Acronyms
(continued)

SOP	standard operating procedure
SS6	East End Sanitary Sewer Monitoring Station
STP	Sewage Treatment Plant
SWDF	solid waste disposal facility
SWMU	solid waste management unit
SWPP	Storm Water Pollution Prevention
SWSA	Solid Waste Storage Area
TDEC	Tennessee Department of Environment and Conservation
TOA	Tennessee Oversight Agreement
TSCA	Toxic Substances Control Act
TSD	treatment, storage, and disposal
TWRA	Tennessee Wildlife Resources Agency
UST	underground storage tank
VE	visible emissions
VOC	volatile organic compound
WAG	waste area group
WM	waste management
WOC	White Oak Creek
WOL	White Oak Lake
WRRP	Water Resources Restoration Program
Y-12	Y-12 National Security Complex