



OAK RIDGE

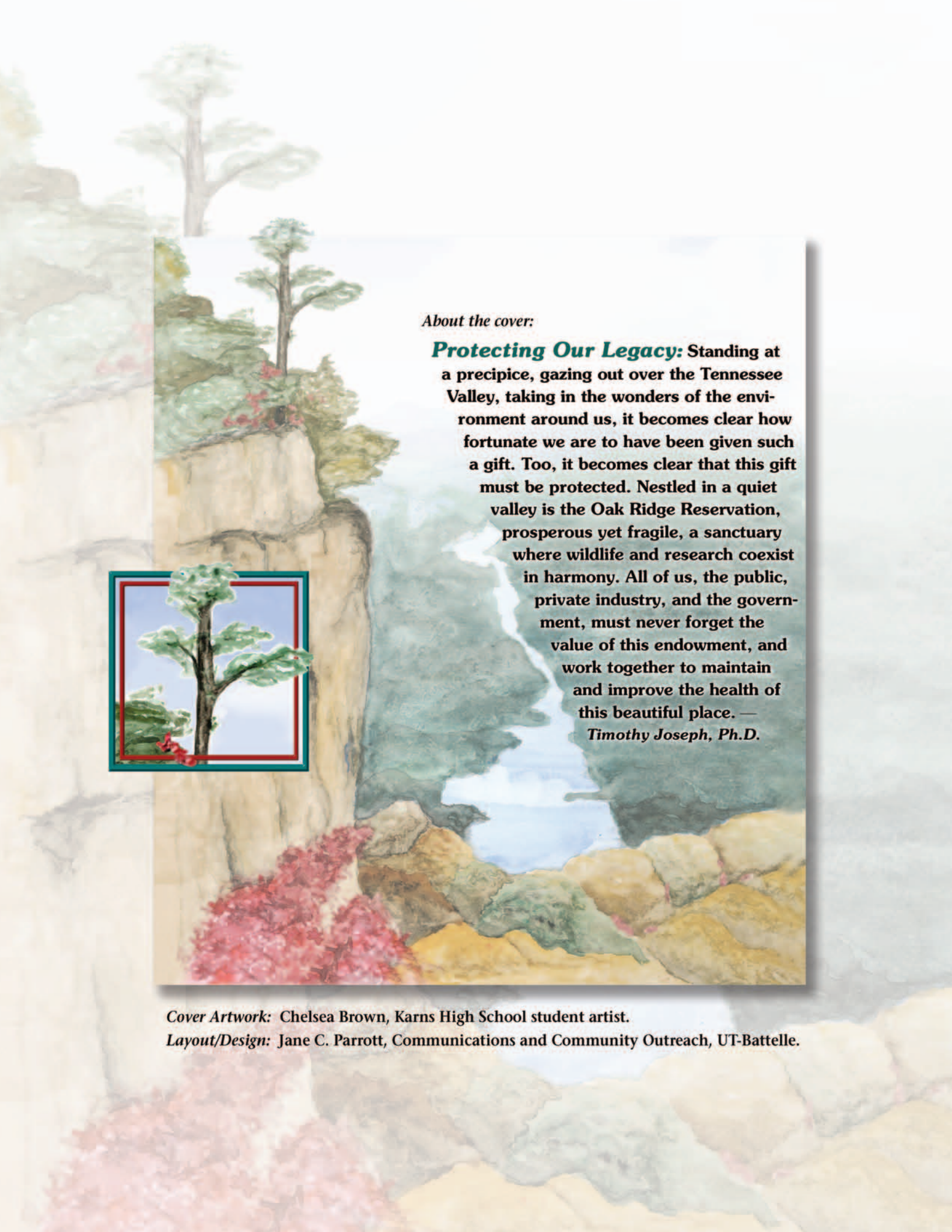
DOE/ORO/2185

Reservation

Annual Site Environmental Report

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Protecting Our Legacy

A watercolor illustration of a landscape. On the left, a tall, light-brown rock cliff rises vertically. At the top of the cliff, a single tall, thin tree with green foliage stands prominently. Below the cliff, a valley opens up, showing a winding path or stream that leads to a body of water in the distance. The foreground is filled with various trees and shrubs, some with vibrant red and pink blossoms. The overall style is soft and artistic, typical of watercolor painting.

About the cover:

Protecting Our Legacy: Standing at a precipice, gazing out over the Tennessee Valley, taking in the wonders of the environment around us, it becomes clear how fortunate we are to have been given such a gift. Too, it becomes clear that this gift must be protected. Nestled in a quiet valley is the Oak Ridge Reservation, prosperous yet fragile, a sanctuary where wildlife and research coexist in harmony. All of us, the public, private industry, and the government, must never forget the value of this endowment, and work together to maintain and improve the health of this beautiful place. —

Timothy Joseph, Ph.D.



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**Oak Ridge Reservation Annual Site
Environmental Report for 2003**

on the World Wide Web
<http://www.ornl.gov/aser>

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Acronyms and Abbreviations

AIHA	American Industrial Hygiene Association
ALARA	as low as reasonably achievable
ANSI	American National Standards Institute, Inc.
ASER	annual site environmental report
ATDD	Atmospheric Turbulence and Diffusion Division
BCK	Bear Creek kilometer
BJC	Bechtel Jacobs Company LLC
BMAP	Biological Monitoring and Abatement Program
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFC	chlorofluorocarbon, chlorinated fluorocarbon
CFR	<i>Code of Federal Regulations</i>
CRK	Clinch River kilometer
CROET	Community Reuse Organization of East Tennessee
CWA	Clean Water Act
CCX	categorical exclusion
CY	calendar year
DCG	derived concentration guide
DNAPL	dense nonaqueous phase liquid
DOE	U.S. Department of Energy
DOE-EM	DOE Office of Environmental Management
DOE-HQ	DOE Headquarters
DOE-ORO	DOE Oak Ridge Operations Office
EA	environmental assessment
EC	Environmental Compliance
EDE	effective dose equivalent
EFK	East Fork Poplar Creek kilometer
EIS	environmental impact statement
EM	(DOE Office of) Environmental Management
EMC	event mean concentration
EMS	environmental management system
EMWMF	Environmental Management Waste Management Facility
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EPT	Ephemeroptera, Plecoptera, and Trichoptera (taxa)
ETTP	East Tennessee Technology Park
FCK	First Creek kilometer
FFK	Fifth Creek kilometer
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FY	fiscal year

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HFIR	High Flux Isotope Reactor
HQ	hazard quotient
HSWA	Hazardous and Solid Waste Amendments
IC ₂₅	inhibition concentration for 25% of organisms
ICP	inductively coupled plasma
ICP-MS	inductively coupled plasma mass spectrometry
ID	identification (number)
INEEL	Idaho National Engineering and Environmental Laboratory
ISMS	Integrated Safety Management System
ISO	International Organization for Standardization
LC ₅₀	concentration of an aqueous sample lethal to 50% of test organisms in a given time span
LEED	Leadership in Energy and Environmental Design
LLLW	liquid low-level radioactive waste
LLW	low-level radioactive waste
MACT	Maximum Achievable Control Technology
MEK	Melton Branch kilometer
MIK	Mitchell Branch kilometer
MSDS	material safety data sheet
MSRE	Molten Salt Reactor Experiment
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NIST	National Institute of Standards and Technology
NNSA	National Nuclear Security Administration
NOAA	National Oceanic and Atmospheric Administration
NOEC	no-observed-effect concentration
NOV	notice of violation
NPDES	National Pollutant Discharge Elimination System
NTRC	National Transportation Research Center
NWTK	Northwest Tributary kilometer
ORAU	Oak Ridge Associated Universities
OREIS	Oak Ridge Environmental Information System
ORGDP	Oak Ridge Gaseous Diffusion Plant
ORISE	Oak Ridge Institute for Science and Education
ORNL	Oak Ridge National Laboratory
ORR	Oak Ridge Reservation
OST	Office of Secure Transportation
OSTI	DOE Office of Scientific and Technical Information
PAM	perimeter air monitoring
PCB	polychlorinated biphenyls
PM10	particulate matter less than 10 microns in diameter
QA	quality assurance
QC	quality control

R&D	research and development
RAM	remote air monitoring
RCK	Racoon Creek kilometer
RCRA	Research Conservation and Recovery Act
SADA	spatial analysis and decision assistance
SARA	Superfund Amendments and Reauthorization Act
SBMS	Standards-Based Management System
SDWA	Safe Drinking Water Act
SNS	Spallation Neutron Source
sodar	sonic detection and ranging
SWSA	solid waste storage area
TDEC	Tennessee Department of Environment and Conservation
TDEC/DOE-O	TDEC DOE Oversight
TRU	transuranic
TSCA	Toxic Substances Control Act
TSP	total suspended particulate
TVA	Tennessee Valley Authority
TWRA	Tennessee Wildlife Resources Agency
UST	underground storage tank
UT	University of Tennessee
VMF	Vehicle Maintenance Facility
WAG	waste area grouping
WBK	Walker Branch kilometer
WCK	White Oak Creek kilometer
WIPP	Waste Isolation Pilot Plant
Y-12	Y-12 National Security Complex

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