

2000 Report
Carlsbad Environmental Monitoring
& Research Center

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Acronyms and Abbreviations

μBq	microbecquerel
μm	micrometer
AA, AAS	atomic absorption, atomic absorption spectrometry
Ag	silver
Al	aluminum
Am	americium
As	arsenic
Ba	barium
Be	beryllium
Bq	Becquerel
C	centigrade
Ca	calcium
Cd	cadmium
Ce	cerium
CEMRC	Carlsbad Environmental Monitoring & Research Center
CEMRP	Carlsbad Environmental Monitoring and Research Program
CFR	Code of Federal Regulations
cm	centimeter
Cm	curium
Co	cobalt
Cr	chromium
Cs	cesium
Cu	copper
CV	coefficient of variation
DL	detection limit
DOE	U.S. Department of Energy
DRI	Desert Research Institute
Dy	dysprosium
EM	Environmental Monitoring
EML	Environmental Monitoring Laboratory
EPA	U.S. Environmental Protection Agency
Er	erbium
Eu	europium
Fe	iron
FY	fiscal year
g	gram
Gd	gadolinium
Ge	germanium
GPS	global positioning satellite
HCl	hydrochloric acid
HClO ₄	perchloric acid
HF	hydrofluoric acid
Hg	mercury
HNO ₃	nitric acid
hr	hour
IC	ion chromatography
ICP-MS	inductively coupled plasma mass spectrometry

K	potassium
km	kilometer
L	liter
La	lanthanum
LaF ₃	lanthanum fluoride
LDBC	"Lie Down and Be Counted"
Li	lithium
m	meter
mb	millibar
MBL	mobile bioassay laboratory
mBq	millibecquerel
MDC	minimum detectable concentration
Mg	magnesium
min	minute
MJ	megajoule
mL	milliliter
mm	millimeter
Mn	manganese
Mo	molybdenum
Na	sodium
NaOH	sodium hydroxide
Nd	neodymium
Ni	nickel
NIST	National Institute of Standards and Technology
NMSU	New Mexico State University
Np	neptunium
ORNL	Oak Ridge National Laboratory
Pb	lead
pH	scale indicating acidity or alkalinity of a substance
PM ₁₀	particulate matter smaller than 10 micrometers in aerodynamic diameter
PM _{2.5}	particulate matter smaller than 2.5 micrometers in aerodynamic diameter
Pr	praseodymium
PRB	Program Review Board
Pu	plutonium
QA	quality assurance
QAP	quality assurance program
QC	quality control
RIP	Radiochemistry Intercomparison Program
Ru	ruthenium
SAB	Science Advisory Board
Sb	antimony
Sc	scandium
SD	standard deviation
Se	selenium
SE	standard error
sec	second
Sm	samarium
Sn	tin
Sr	strontium
T _{1/2}	half-life

Th	thorium
Ti	titanium
TIMS	thermal ionization mass spectrometry
Tl	thallium
TSP	total suspended particulates
U	uranium
UVB	Ultra-Violet B
V	vanadium
W	watt
WERC	Waste-management Education & Research Consortium
WIPP	Waste Isolation Pilot Plant

FORWARD

This report was written, edited and produced collaboratively by the staff of the Carlsbad Environmental Monitoring & Research Center (CEMRC), who are hereby acknowledged for their contributions to the report and the project activities described herein. The first section is an overview of the current program activities, structure, resources and quality assurance. The second section consists of data summaries containing methods and descriptions of results of studies in the WIPP Environmental Monitoring project. Tables presenting data from the WIPP Environmental Monitoring project, and the contents of this report are available for electronic access at <http://www.cemrc.org>.

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The cover photograph is the CEMRC lung and whole body radiobioassay system.

