

State of California
Environmental Protection Agency
Department of Toxic Substances Control

SUPPLEMENTAL GUIDANCE FOR
HUMAN HEALTH MULTIMEDIA RISK
ASSESSMENTS OF HAZARDOUS WASTE
SITES AND PERMITTED FACILITIES

Prepared by
The Office of Scientific Affairs

July 1992
reprinted September 1993,
corrected and reprinted August 1996

FOREWORD

The California Department of Toxic Substances Control (DTSC), within the California Environmental Protection Agency, has the responsibility of managing the State's hazardous waste program to protect public health and the environment. The duties of the Office of Scientific Affairs (OSA) include providing scientific assistance in the areas of toxicology, risk and environmental assessment, training, and guidance. Part of this assistance and guidance is the preparation of regulations, scientific guidance documents, and recommended procedures for use by regional staff, local governmental agencies, or responsible parties and their contractors in the characterization and mitigation of hazardous waste sites and permitted facilities (also referred to as hazardous substances release sites; toxic waste sites; treatment, storage, disposal facilities).

A quantitative human health risk assessment is an integral part of the site mitigation process for hazardous waste sites and may also be required before a permit can be issued to a treatment, storage and/or disposal facility. These assessments eventually form a part of the public record and provide the basis for the justification of decisions taken to protect the public health against significant risk as well as providing information about the nature and magnitude of the potential health risks associated with the site or facility.

The U.S. Environmental Protection Agency (US EPA) has published a manual which provides detailed instructions for performing human health risk assessments (Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A), Interim Final (EPA/540/1-89/002, December 1989 (HHEM)). In addition, the US EPA Office of Solid Waste and Emergency Response (OSWER) issues directives from time to time which clarify or provide further guidance. Multimedia human health risk assessments prepared for sites or facilities over which the DTSC has jurisdiction must conform to the guidance in the HHEM and OSWER directives.

This DTSC guidance manual supplements the HHEM and OSWER directives by providing recommendations on specific technical or scientific issues that may be encountered when preparing multimedia risk assessment reports for submittal and review by the DTSC.

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Chapters 3, Documentation and Assumptions Used in the Decision to Include and Exclude Pathways, and 4, Guidelines for the Documentation of Methodologies, Justification, Input, Assumptions, Limitations, and Output for Exposure Models, have been removed from this guidance and is replaced by the Technical Reports describing the basis of the CalTOX model.

*Technical coordinator for this guidance manual.

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Chapter 7	Assessment of Health Risks from Inorganic Lead in Soil
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ORDERING INFORMATION

Hard copies of this document may be ordered from:

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