

## Appendix A References

### A.1 REQUIRED PUBLICATIONS.

References listed below have been cited in the text and the appendices.

- <sup>1</sup> EPA QA/G-4, Guidance for the Data Quality Objectives Process, EPA/600R-96/055, U.S. Environmental Protection Agency.
- <sup>2</sup> ER 5-1-11, Program and Project Management, U.S. Army Corps of Engineers.
- <sup>3</sup> OSWER Directive No. 9355.7-04, Land Use in the CERCLA Remedy Selection Process, U.S. Environmental Protection Agency.
- <sup>4</sup> EPA/540/1-89/002, Risk Assessment Guidance for Superfund: Vol. 1 - Human Health Evaluation Manual (Part A), U.S. Environmental Protection Agency.
- <sup>5</sup> EPA 1997 OSWER Directive No. 9285.7-75. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments, Interim Final.
- <sup>6</sup> E1689-95, Standard Guide for Developing Conceptual Site Models for Contaminated Sites, American Society of Testing Materials.
- <sup>7</sup> United States Code (USC) (several statutes are cited in this manual).
- <sup>8</sup> Title 40, Code of Federal Regulations (CFR) (several CFR cited only as examples).
- <sup>9</sup> Management Guidance for the Defense Environmental Restoration Program, Department of Defense.
- <sup>10</sup> USACE DERP-FUDS Standard Operating Procedures for Potentially Responsible Party Projects.
- <sup>11</sup> ER 385-1-92, Safety and Occupational Health Document Requirements for HTRW and Ordnance Explosive Waste Activities.
- <sup>12</sup> D6235, Practice for Expedited Site Characterization of Vadose Zone and Groundwater Contamination at Hazardous Waste Contaminated Sites, American Society of Testing Materials.
- <sup>13</sup> OSWER Directive 9285.7-09A, Guidance for Data Useability in Risk Assessment (Part A), Final Report, U.S. Environmental Protection Agency.
- <sup>14</sup> EPA/540/R-95/059, OSWER Directive No. 9355.0-04B, Remedial Design/Remedial Action Handbook, U.S. Environmental Protection Agency.
- <sup>15</sup> EM 200-1-3, Requirements for the Preparation of Sampling and Analysis Plans, U.S. Army Corps of Engineers.
- <sup>16</sup> EM 200-1-6, Chemical Quality Assurance for HTRW Projects, U.S. Army Corps of Engineers.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.

Paragraph A.2 only lists additional sources of information related to this EM.

## EM 200-1-2

31 Aug 98

- <sup>17</sup> D5792-95, Standard Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives, American Society of Testing Materials.
- <sup>18</sup> ER 1110-3-1301, Cost Engineering Policy and General Requirements for Hazardous, Toxic, and Radioactive Waste Cost Estimates, U.S. Army Corps of Engineers.
- <sup>19</sup> ANSI/ASQC E4, Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, American National Standards Institute/American Society for Quality Control.
- <sup>20</sup> EPA 1998  
EPA QA/G-9, Guidance for Data Quality Assessment - Practical Methods for Data Analysis, EPA/600/R-96/084.
- <sup>21</sup> Nayatani, Yoshinobu, and others, 1994, *The Seven QC Tools: Practical Applications for Managers*, Quality Resources, New York. (Figure 1 was adapted with permission of publisher, Quality Resources, New York.)
- FR 30810, Vol 55, No. 145, July 27, 1990, 40CFR Parts 264, 265, 270, and 271, Corrective Action for Solid Waste Management Units at Hazardous Waste Management Facilities, Proposed Rule.
- FR 19431, Vol 61, No. 85, May 1, 1996, Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste Management Facilities; Proposed Rule.

### A.2.2 U.S. Air Force.

U.S. Air Force 1992  
Installation Restoration Program Remedial Project Manager's Guide.

### A.2.3 U.S. Army.

AR 5-1  
Army Management Philosophy.

AR 200-1  
Environmental Protection and Enhancement.

AR 200-2  
Environmental Effects of Army Actions.

AR 200-3  
Natural Resources--Land, Forest and Wildlife Management.

## A.2 RELATED PUBLICATIONS.

These additional sources of information are related to this manual. Note that these related publications are restricted to current references that are already published as a final document.

### A.2.1 Federal Register (FR).

FR 41000, Vol 54, Oct 4, 1989  
NPL for Uncontrolled Hazardous Waste Sites, Final Rule.

### A.2.4 U.S. Army Corps of Engineers (USACE).

ER 1110-1-12  
Quality Management.

ER 1110-1-263  
Chemical Data Quality Management for HTRW Remedial Activities.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

ER 1180-1-6  
Construction Quality Management.

Project Manager and Technical Manager  
Responsibility Guide for Hazardous, Toxic and  
Radiological Waste, Draft.

EP 1110-1-19  
Technical Requirements for Specifications to  
Report HTRW Environmental Restoration Cost  
and Performance.

USACE CEMP-RT memorandum, subject:  
"Environmental Cleanup and Protection  
Management Plan for Military Programs."

EP 1110-1-21  
Air Pathway Analysis for the Design of HTRW  
Remedial Action Projects.

USACE CEMP-RT memorandum, subject:  
"Technical Roles and Responsibilities for the  
USACE HTRW Program."

EM 200-1-1  
Validation of Analytical Chemistry Laboratories.

**A.2.5 U.S. Environmental Protection  
Agency (EPA).**

EM 200-1-4  
Risk Assessment Handbook; Volume I: Human  
Health Evaluation; Volume II: Environmental  
Evaluation.

EPA  
Health Effects Assessment Summary Tables.

EM 200-1-5  
Design, Installation and Utilization of  
Fixed-Fenceline Sample Collection and  
Monitoring Systems.

EPA  
Integrated Risk Information System, On-Line  
Database.

EM 1110-1-502  
Technical Guidelines for Hazardous and Toxic  
Waste Treatment and Cleanup Activities.

EPA 1986  
OSWER Directive 9205.00-5, RCRA Facility  
Assessment Guidance.

EM 1110-1-1906  
Soil Sampling.

EPA 1987  
OSWER Directive 9345.1-02, Expanded Site  
Inspection.

CEGS-01450  
Chemical Data Quality Control.

EPA 1987  
EPA/540/G-87/001-004, Data Quality  
Objectives for Remedial Response Activities.

DRP-95-1  
User's Guide for GEOSITE: Geotechnical Site  
Investigation Methods, U.S. Army Engineer  
Waterways Experiment Station, Vicksburg, MS.

EPA 1988  
OSWER Directive 9234.1-01 and -02,  
CERCLA Compliance with Other Laws Manual,  
Part I.

EPA 1988  
EPA-530-SW-88-028, RCRA Corrective Action  
Plan, Interim Final.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

**EM 200-1-2**  
**31 Aug 98**

EPA 1988  
EPA-530-SW-88-029, RCRA Corrective Action Interim Measures Guidance, Interim Final.

EPA 1988  
EPA/540/1-88/001, Superfund Exposure Assessment Manual.

EPA 1989  
EPA/540/G-89/009, CERCLA Compliance with Other Laws Manual: Part II, Clean Air Act and Other Environmental Statutes and State Requirements.

EPA 1989  
EPA/530-SW-89-026, Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance.

EPA 1989  
EPA/540/SW-89-031, RCRA Facility Investigation Guidance.

EPA 1989  
EPA/540/G-89/004, OSWER Directive 9355.3-01, Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA.

EPA 1991  
EPA-540/6-91/013, OSWER Directive 9345.0-01A, Guidance for Performing Preliminary Assessments Under CERCLA.

EPA 1991  
Data Use Categories and Data Useability.

EPA 1991  
Streamlining Superfund Soil Studies: Using the Data Quality Objectives Process for Scoping.

EPA 1991  
OSWER Directive 9285.7-01B, Human Health Evaluation Manual, Part B: "Development of Risk-Based Preliminary Remediation Goals."

EPA 1991  
OSWER Directive 9285.7-01C, Human Health Evaluation Manual, Part C: "Risk Evaluation of Remedial Alternatives".

EPA 1992  
EPA/630/R-92/001, Framework for Ecological Risk Assessment.

EPA 1992  
Publication No. 9285.7-09B. PB92-963362. Guidance for Data Useability in Risk Assessment. Part B.

EPA 1992  
EPA/530-R-93-001, RCRA Ground-Water Monitoring: Draft Technical Guidance.

EPA 1992  
Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance.

EPA 1992  
OSWER Directive 9203.1-01, Superfund Accelerated Cleanup Model (SACM).

EPA 1992  
OSWER Directive 9203.1-03, Guidance on the Implementation of the SACM Under CERCLA and the NCP.

EPA 1992  
EPA/540/R-92/021, Guidance for Performing Site Inspections Under CERCLA.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

- EPA 1992  
EPA/540/R-92/071a, Guidance for Conducting Treatability Studies Under CERCLA, OSWER Directive 9380.3-10.
- EPA 1993  
EPA/625/R-93/003a, Subsurface Characterization and Monitoring Techniques, A Desk Reference Guide, Vol I: Solids and Ground Water, App A and B.
- EPA 1993  
EPA/625/R-93/003b, Subsurface Characterization and Monitoring Techniques, A Desk Reference Guide, Vol II: Vadose Zone Field Screening and Analytical Methods, App C and D.
- EPA 1993  
EPA 540-F-93-047, Presumptive Remedies: Policy and Procedures.
- EPA 1993  
EPA 540-F-93-048, Presumptive Remedies: Site Characterization and Technology Selection for CERCLA Sites with Volatile Organic Compounds in Soils.
- EPA 1993  
EPA 540-F-93-035, Presumptive Remedy for CERCLA Municipal Landfill Sites.
- EPA 1994  
EPA QA/G-4D, Data Quality Objectives Decision Errors Feasibility Trials Software for the Data Quality Objectives Process, EPA/600R-96/056.
- EPA 1994  
EPA/542/B-94/013, Remediation Technologies Screening Matrix and Reference Guide, prepared by the DOD Environmental Technology Transfer Committee for the Federal Remediation Technologies Roundtable (NTIS PB95-104782).
- EPA 1994  
EPA/540/R-93/519a, Guide for Conducting Treatability Studies Under CERCLA: Biodegradation Remedy Selection.
- EPA 1995  
EPA 542-B-95-002, Guide to Documenting Cost and Performance for Remediation Projects.
- EPA 1995  
EPA/542/R-95/001, Abstracts for Remediation Case Studies.
- EPA 1995  
EPA/540/R-95/534, Principles and Practices of Bioventing; Volume 1: Bioventing Principles; Volume 2: Bioventing Design.
- EPA 1986 - 1996  
SW-846, Test Methods for Evaluating Solid Waste, Third Edition (September 1986), Final Update I (July 1992), Final Update IIA (August 1993), Final Update II (September 1994), Final Update IIB (January 1995), Final Update III.
- EPA 1997  
EPA/600/P-95/002Fa,b,c, Exposure Factors Handbook, Office of Health and Environmental Assessment.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

**EM 200-1-2**  
**31 Aug 98**

EPA 1997  
EPA 4020R097-106, Multi-Agency Radiation Survey and Site Investigation Manual.

EPA 1997  
EPA QA/G-9D, Data Quality Evaluation Statistical Toolbox (DataQuest), EPA/600R-96/085.

EPA 1998  
OSWER Directive 9285.7-01D. EPA/540/R-97/033. Human Health Evaluation Manual, Part D: "Standardized Planning, Reporting, and Review of Superfund Risk Assessments."

EPA 1998  
EPA QA/R-5, EPA Guidance for Quality Assurance Project Plans, EPA/600R-98/018.

EPA 1998  
EPA/542/B-98/002, Field Sampling and Analysis Technologies Matrix and Reference Guide.

EPA 1998  
EPA/630/R-95/002F, Guidelines for Ecological Risk Assessment.

**A.2.6 American Society of Testing Materials (ASTM).**

ASTM D4448  
Standard Guide for Sampling Groundwater Monitoring Wells.

ASTM D4696  
Standard Guide for Pore-Liquid Sampling from the Vadose Zone.

ASTM D4700  
Standard Guide for Soil Sampling From the Vadose Zone.

ASTM D4823  
Standard Guide for Core Sampling Submerged, Unconsolidated Sediments.

ASTM D5730  
Standard Guide to Site Characterization for Environmental Purposes With Emphasis on Soil, Rock, Vadose Zone and Ground Water.

ASTM D5793  
Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation.

ASTM D5979  
Standard Guide for Conceptualization and Characterization of Ground-Water Systems.

ASTM D6168  
Standard Guide for Selection of the Minimum Set of Data Elements Required to Identify Locations Chosen for the Field Collection of Information to Describe Soil, Rock, and Their Contained Fluids.

ASTM E1527  
Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments Process.

ASTM E1903  
Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessments Process.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

ASTM E1528  
Standard Practice for Environmental Site Assessments: Transaction Screen Process.

ASTM E1739  
Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.

ASTM E1912  
Standard Guide for Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases.

ASTM PS 104  
Provisional Standard Guide for Risk Based Corrective Action.

ASTM ES 38-94  
Emergency Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.

#### **A.2.7 Others.**

American Society of Civil Engineers (ASCE) Task Committee on Geostatistical Techniques in Geohydrology (S. Rouhani, Chairman and Principal Author). "Review of geostatistics in geohydrology, I. Basic concepts," *ASCE Journal of Hydraulic Engineering* 116(5), 612-32.

Barcelona 1988  
Barcelona, Michael J. 1988. "Overview of the sampling process." *Principles of environmental sampling*. L. H. Keith, (ed.), American Chemical Society, Washington, DC.

Plumb 1981  
"Procedures For Handling and Chemical Analysis of Sediment and Water Samples," U.S. EPA and U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Ramsey 1991  
Ramsey, Charles A. 1991. "Application of Gy's sampling theory to the sampling of solid waste materials." Presented at EPA's Seventh Annual Waste Testing and Quality Assurance Symposium, Washington, DC.

Rendu 1980  
Rendu, J. M. 1980. "Disjunctive kriging: A simplified theory," *Mathematical Geology* 12, 306-21 (GEOS).

Rouhani 1993  
Rouhani, S. 1993. "Environmental applications--A modular three-day intensive course (EST 153)," *Course Notes*, presented at the Georgia Institute of Technology, Atlanta, May 12-14, 1993.

Rouhani 1986  
Rouhani, S. 1986. "Comparative study of ground water mapping," *Journal of Ground Water* 24(2), 207-16.

Rouhani and Hall 1988a  
Rouhani, S., and T. J. Hall 1988a. "Space-time kriging of groundwater data," in M. Armstrong, *Geostatistics*, vol 2, Kluwer Academic Publishers, Dordrecht, 639-50.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.

**EM 200-1-2**  
**31 Aug 98**

Rouhani and Hall 1988b

Rouhani, S., and Hall, T. J. 1988b.  
“Geostatistical schemes for groundwater  
sampling,” *Journal of Hydrology* 103, 85-102.

Scholtes 1988

Scholtes, Peter R. 1988. *The team handbook,  
how to use teams to improve quality.* Joiner  
Associates Inc., Madison, WI.

Wentsel, et al., 1996

*Tri-Service Procedural Guidelines for  
Ecological Risk Assessments.*

Wiedmeier, T.H., et al 1996

Technical Protocol for Evaluating Natural  
Attenuation of Chlorinated Solvents in Ground  
Water, for Air Force Center for Environmental  
Excellence, Technology Transfer Division,  
Brooks Air Force Base, San Antonio, TX.

Paragraph A.1 lists those references actually cited in the text and appendices of this EM.  
Paragraph A.2 only lists additional sources of information related to this EM.