

Appendix B

OHIO EPA AND U.S. EPA GUIDANCE DOCUMENTS

Statement of Purpose and Use of This Guidance Document List:

The purpose of this list of Ohio EPA and U.S. EPA policies, directives and guidance documents is to provide a reference of the documents which provide essential direction and guidance for conducting investigations, evaluating alternative remedial actions, and designing and implementing selected remedial actions at sites for which the Division of Hazardous Waste Management has authority over such Correction Action activities. Certain sites may have contaminants or conditions that are not fully addressed by the documents in this list. There is an evolving body of policy directives, guidance and research documentation that should be utilized, as necessary, to address those conditions and contaminants not encompassed by the documents in this list.

OHIO EPA POLICIES AND GUIDANCE DOCUMENTS

1. Best Available Treatment Technologies (BATT) for Remedial Response Program Sites, Ohio EPA Policy No. DERR-00-RR-016, Final, October 23, 1992 .
2. Closure Plan Review Guidance for RCRA Facilities, March, 1999.
3. Ohio Corrective Action Plan. January 1997. Internet address: <http://www.epa.ohio.gov/dhwm/welcome.html>
4. Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring Programs, Ohio EPA, Division of Drinking and Ground Waters, Final, February 1995.
5. Wastewater Discharges Resulting from Clean-Up of Response Action Sites Contaminated with Volatile Organic Compounds, Ohio EPA Policy No. DSW-DERR 0100.027, Final, September 22, 1994.

If there are any aquatic ecological concerns identified during the RFI phase for the site under investigation please consult the following Biological Criteria documents:

6. Biological Criteria for the Protection of Aquatic Life: Volume I. The Role of Biological Data in Water Quality Assessment. Ohio EPA, Division of Surface Water, 1987.

7. Biological Criteria for the Protection of Aquatic Life: Volume II. Users Manual for Biological Field Assessment of Ohio Surface Waters. Ohio EPA, Division of Surface Water, 1987.
8. Addendum to Biological Criteria for the Protection of Aquatic Life: Volume II. Users Manual for Biological Field Assessment of Ohio Surface Waters. Ohio EPA, Division of Surface Water, 1989.
9. Biological Criteria for the Protection of Aquatic Life: Volume III. Standardized Biological Field Assessment of Ohio Surface Waters. Ohio EPA, Division of Surface Water, 1989.
10. Rankin, E.T. 1989. The Qualitative Habitat Evaluation Index (QHEI): Rationale, Methods, and Application. Ohio EPA, Division of Surface Water, 1990.

U.S. EPA GUIDANCE DOCUMENTS AND OTHER USEFUL GUIDANCE

11. "Basics of Pump-and-Treat Ground Water Remediation Technology," EPA/600/8-90/003, March 1990.
12. "Bibliography of Federal Reports and Publications Describing Alternative and Innovative Treatment Technologies for Corrective Action and Site Remediation," EPA/540/8-91/007, May 1991.
13. Closure of Hazardous Waste Surface Impoundments, SW-873, September 1980.
14. A Compendium of Technologies Used in the Treatment of Hazardous Wastes, EPA/625/8-87/014, September 1987.
15. Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites, OSWER Directive 9355.3-11, EPA/540/P-91/001, February 1991.
16. "Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste Management Facilities," Advanced Notice of Proposed Rulemaking, 61 Fed. Reg. 19432. May 1, 1996.
17. "Corrective Measures for Releases to Ground Water from SWMUs," Draft Final, EPA/530 SW-88-020, March 1985.

18. Ecological Assessments of Hazardous Wastes Sites: A Field and Laboratory Reference, EPA/600/3-89/013, March 1989.
19. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments.
20. Exposure Factors Handbook, EPA/600/8-89/043, March 1990.
21. "Final Guidance for Data Useability in Risk Assessment," (Parts A & B), OSWER Directive 9285.7-09A, April 1992.
22. Guidance on Applying the Data Quality Objectives Process for Ambient Air Monitoring Around Superfund Sites (Stages 1 & 2), EPA/450/4-89/015, August 1989.
23. Guide for Decontaminating Buildings, Structures, and Equipment at Superfund Sites, EPA/600/2-85/028, March 1985.
24. Guidance Document on the Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities, EPA, 1989.
25. Guidance for Evaluating the Technical Impracticability of Ground Water Restoration, OSWER Publication 9234.2-25, September 1993.
26. Guidance for Remedial Actions for Contaminated Ground Water at Superfund Sites, OSWER Directive 9283.1-2, EPA/540/G-88/003, December 1988, interim final.
27. Guidance on Remedial Actions for Superfund Sites with PCB Contamination, OSWER Directive 9355.4-01, EPA/540/G-90/007, August 1990.
28. Guide for Conducting Treatability Studies Under CERCLA: Aerobic Biodegradation Remedy Screening, EPA/540/2-91/013A, July 1991, interim guidance.
29. Guide for Conducting Treatability Studies Under CERCLA: Soil Vapor Extraction, EPA/540/2-91/019A, September 1991, interim guidance.
30. Handbook - Dust Control at Hazardous Waste Sites, EPA/540/2-85/003, November 1985.
31. "Handbook Ground Water," Volumes I-II, EPA/625/6-90/016 (a & b), September 1990 and July 1991.

32. Handbook on In Situ Treatment of Hazardous Waste-Contaminated Soils, EPA/540/2-90/002, January 1990.
33. "Handbook of RCRA Ground Water Monitoring Constituents: Chemical and Physical Properties," EPA/530/R-92/022, September 1992.
34. Handbook for Stabilization/Solidification of Hazardous Wastes, EPA/540/2-86/001, June 1986.
35. "Interim Final RCRA Facility Investigation (RFI) Guidance," Volumes I-IV, EPA/530/SW-89-031, May 1989.
36. Leachate Plume Management, EPA/540/2-85/004, November 1985.
37. Preparation Aids for the Development of Category 1 Quality Assurance Project Plans, EPA/6008-91-003, February 1991.
38. Quality Assurance/Quality Control Guidance for Removal Activities: Sampling QA/QC Plan and Data Validation Procedures, Interim Final, EPA/540/G-90/004, April 1989 .
39. RCRA Corrective Action Plan (Final) OSWER 9902.3-2A May 1994.
40. RCRA Ground Water Monitoring Technical Enforcement Guidance Document (TEGD), OSWER Directive 9950.1, September 1986.
41. A Rationale for the Assessment of Errors in the Sampling of Soils, EPA/600/4-90/013, July 1990.
42. Requirements for Hazardous Waste Landfill Design, Construction, and Closure, Seminar publication, EPA/625/4-89/022, August 1989.
43. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part A), Interim Final, EPA/540/1-89/002, December 1989.
44. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B), "Development of Risk-based Preliminary Remediation Goals," OSWER Directive 9285.7-01B, December 1991, Interim.
45. Risk Assessment Guidance for Superfund: Volume II -Environmental Evaluation Manual, OSWER Directive 9285.7-01, EPA/540/1-89/001A, March 1989, interim final.

46. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual, Supplemental Guidance: "Standard Default Exposure Factors," OSWER Directive 9285.6-03, March 1991, interim final.
47. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part C), "Risk Evaluation of Remedial Alternatives," OSWER Directive 9285.7-01C, December 1991, Interim.
48. SW 846, Test Methods for Evaluating Solid Waste, 3rd Edition and appropriate updates, November 1986.
49. "Soil Screening Guidance: Technical Background Document," EPA/540/R-95/128, May 1996.
50. "Soil Screening Guidance: Users Guide," OSWER Publication 93.55.4-23, April 1996.
51. Stabilization/Solidification of CERCLA and RCRA Wastes - Physical Tests, Chemical Testing Procedures, Technology Screening and Field Activities, EPA/625/6-89/022, May 1989.
52. Standard Methods for the Examination of Water and Wastewater, American Public Health Association, 18th Edition, 1992.
53. "Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities," Interim Final, EPA/530/SW-89/026, April 1989.
54. Superfund Exposure Assessment Manual, OSWER Directive 9285.5-1, EPA/540/1-88/001, April 1988.
55. Superfund Ground Water Issue: Ground Water Sampling for Metals, EPA/540/4-89/001, March 1989.
56. Superfund Remedial Design and Remedial Action Guidance, OSWER 9355.0-4A, June 1986.
57. Technical Guidance Document: Construction Quality Assurance and Quality Control for Waste Containment Facilities, EPA/600/R-93/182, September 1993.
58. Technical Guidance for Corrective Measures - Subsurface Gas, EPA/530-SW-88-023, March 1985.
59. Technical Guidance Document: Final Covers on Hazardous Waste Landfills and Surface Impoundments, EPA/530-SW-89-047, July 1989.

60. Technical Guidance Document: Inspection Techniques for the Fabrication of Geomembrane Field Seams, EPA/530/SW-91/051, May 1991.
61. U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA-540/R-94-012, February 1994.
62. U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA-540/R-94-013, February 1994.
63. U.S. EPA Health Effects Assessment Summary Tables, Office of Emergency & Remedial Response, published annually.
64. U.S. EPA Integrated Risk Information System (IRIS) Data Base.
65. U.S. EPA Clu-In Hazardous Waste Clean-up Information Web Page, <http://clu-in.org/>.
66. U.S. EPA, Region 5, The Use of Field Methods to Support RFI Streamlining, June 1997.
67. ASTM Standard Practice for Expedited Site Characterization of Vadose Zone and Ground Water Contamination at Hazardous Waste Contaminated Sites, November 1998.
68. ASTM RBCA Fate and Transport Models: Compendium and Selection Guidance, <http://www.epa.gov/oust/rbdtm>.
69. U.S. EPA Guide for conducting treatability studies under CERCLA, May 1998.
70. U.S. EPA Guidance for the Data Quality Objective Process, September 1994
71. U.S. EPA Guidance for Data Quality Assessment: Practical methods for Data Analysis, January 1998.
72. U.S. EPA Data Quality Evaluation Statistical Toolbox (DATA Quest) User's Guide, December 1997.
73. U.S. EPA Data Quality Objectives Decision Error Feasibility Trials (DQO/DEFT), September 1994.
74. U.S. EPA Guidelines for Ecological Risk Assessment, April 1998.
75. U.S. EPA Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments, June 1997.

76. U.S. EPA Region 5 Ecological Risk Assessment for RCRA Corrective Action, October 1994.
77. U.S. EPA Region 5 Ecological Data Quality Levels, RCRA Appendix IX Hazardous Constituents, August 1997.
78. U.S. EPA Land Use in CERCLA Remedy Selection Process, May 1995.
79. U.S. EPA Draft Handbook of Ground Water Policies for RCRA Corrective Action, May 2000.
80. U.S. EPA Compendium of ERT Ground Water Sampling Procedures, January 1991.
81. U.S. EPA RCRA Ground Water Monitoring: Draft Technical Guidance.
82. U.S. EPA Risk Assessment Guidance for Superfund (RAGS) Volume I: Human Health Evaluation Manual (Part D, Standardized Planning), January 1998.
83. U.S. EPA Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part C, Risk Evaluation of Remedial Alternatives), December 1991.
84. U.S. EPA Supplemental Guidance to RAGS: Calculating the Concentration Term, May 1992.
85. U.S. EPA Stabilization Technologies for RCRA Corrective Action, August 1991.
86. U.S. EPA RCRA Corrective Action Stabilization Technologies, October 1992.
87. U.S. EPA Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tanks, December 1997.
88. U.S. EPA RCRA Public Participation Manual, 1996.
89. U.S. EPA Presumptive Remedies: Policies and Procedures, September 1993.
90. U.S. EPA Region 5 RCRA QAPP Instructions, April 1998.
91. U.S. EPA EPA Guidance for Quality Assurance Project Plans, February 1998.

92. U.S. EPA Preparation Aids for the Development of Category I Quality Assurance Project Plans, February 1991.
93. U.S. EPA Preparation Aids for the Development of Category II Quality Assurance Project Plans, February 1991.
94. U.S. EPA Preparation Aids for the Development of Category III Quality Assurance Project Plans, February 1991.
95. U.S. EPA Preparation Aids for the Development of Category IV Quality Assurance Project Plans, February 1991.
96. U.S. EPA Management of Remediation Waste Under RCRA, October 1998.
97. U.S. EPA RCRA Facility Assessment (RFA) Guidance, October 1986.
98. U.S. EPA Guidance for Performing Preliminary Assessments Under CERCLA, September 1991.
99. Federal Remediation Technologies Roundtable Remediation Technologies Screening Matrix and Reference Guide Ver. 3.0.
100. U.S. EPA Corrective Action: Technologies and Applications, September 1989.
101. U.S. EPA Rules of Thumb for Superfund Remedy Selection, August 1997.

INCINERATION GUIDANCE DOCUMENTS

102. Handbook - Guidance on Setting Permit Conditions and Reporting Trial Burn Results - Volume II of the Hazardous Waste Incineration Guidance Series, EPA/625/6-89/019, January 1989.
103. Handbook - Hazardous Waste Incineration Measurement Guidance Manual - Volume III of the Hazardous Waste Incineration Guidance Series, EPA/625/6-89/021, June 1989.
104. Handbook - Permit Writer's Guide to Test Burn Data - Hazardous Waste Incineration, EPA/625/6-86/012, September 1986.
105. Handbook - QA/QC Procedures for Hazardous Waste Incineration, EPA/625/6-89/023, January 1990.

RADIOACTIVITY GUIDANCE DOCUMENTS

106. Assessment of Technologies for the Remediation of Radioactively Contaminated Superfund Sites, EPA/540/2-90/001, January 1990.