

ATTACHMENT V

**Quality Assurance Project Plan
Region 5 RCRA Model**

Updated Quality Assurance Project Plan to be sent when final.

ATTACHMENT VI

REFERENCES

A. REFERENCES

The following list comprises additional guidance documents and other information which may be useful in implementing a RCRA §3008(h) Order. This list does not include every guidance document pertaining to work performed under a §3008(h) Order. Documents are organized according to the relevant section of the Order. Contacts for additional information are included at the end of this list.

"Health and Safety Requirements of Employees Employed in Field Activities," EPA Order 1440.2, July 12, 1981.

"Corrective Measures for Releases to Ground Water from SWMUs," Draft Final, EPA/530-SW-88-020, March 1985.

"Corrective Measures for Releases to Soil from SWMUs," Draft Final EPA/530-SW-88-022, March 1985.

"Technical Guidance for Corrective Measures -- Subsurface Gas," EPA/530-SW-88-023, March 1985.

"Technical Guidance for Corrective Measures--Determining Appropriate Technology and Response for Air Releases," Draft Final, EPA/530-SW-88-021, March 1985.

"RCRA Ground-Water Monitoring Technical Enforcement Guidance Document (TEGD)," OSWER Directive 9950.1, September 1986.

"Technical Guidance Document: Construction Quality Assurance for Hazardous Waste Land Disposal Facilities," EPA 530/SW-86/031, OSWER Directive 9472.003, October 1986.

"RCRA Facility Assessment (RFA) Guidance," EPA/530/SW-86/053, October 1986.

"Data Quality Objectives for Remedial Response Activities," EPA/540/G-87/003 & 004, OSWER Directive 9335.0-7B, March 1987.

"Alternate Concentration Limit Guidance, Part 1: ACL Policy and Information Requirements," Interim Final, OSWER Directive 9481.00-6C, July 1987.

"A Compendium of Superfund Field Operations Methods," Two Volumes, EPA/540/P-87/001a&b, OSWER Directive 9355.0-14, August 1987.

"Technology Screening Guide for Treatment of CERCLA Soils and Sludges," EPA/540/2-88/004, September 1988.

"Ground-Water Modeling: An Overview and Status Report," EPA/600/2-89/028, December 1988.

"Risk Assessment Guidance for Superfund, Volume II: Environmental Evaluation Manual," Interim Final, EPA/540/1-89/001, March 1989.

References

"Ecological Assessment of Hazardous Waste Sites: A Field and Laboratory Reference Document," EPA 600/3-89/013, March 1989.

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

"Handbook of Suggested Practices for the Design and Installation of Ground-Water Monitoring Wells," EPA/600/4-89/034, April 1989.

"Stabilization/Solidification for CERCLA and RCRA Wastes," EPA/625/6-89/022, May 1989.

"Interim Final RCRA Facility Investigation (RFI) Guidance," Volumes I-IV, EPA/530/SW-89-031, May 1989.

"Technical Guidance Document: Final Covers on Hazardous Waste Landfills and Surface Impoundments," EPA/530/SW-89/047, July 1989.

"Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part A)," Interim Final, EPA/540/1-89/002, December 1989

"Air/Superfund National Technical Guidance Study Series," Volumes I-IV, EPA 450/1-89-001,002,003,004 (1989 and 1990).

"Handbook on In-Situ Treatment of Hazardous Waste-Contaminated Soils," EPA/540/2-90/002, 1990.

"Basics of Pump-and-Treat Groundwater Remediation Technology," EPA/600/8-90/003, March 1990.

"Framework for Ecological Risk Assessment," EPA/630/R-92/001, February 1991.

"Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors," OSWER Directive 9285.6-03, March 25, 1991.

"Synopsis of Federal Demonstrations of Innovative Site Remediation Technologies," EPA/540/8-91/009, May 1991.

"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.

"Handbook: Ground Water," Volumes I and II, EPA/625/6-90/016 (a&b), September 1990 and July 1991.

"Guide for Conducting Treatability Studies under CERCLA: Aerobic Biodegradation Remedy Screening", EPA/540/2-91/013B, July 1991.

References

- "Handbook: Stabilization Technologies for RCRA Corrective Actions," EPA/625/6-91/026, August 1991.
- "Guide for Conducting Treatability Studies under CERCLA: Soil Vapor Extraction," EPA/540/2-91/019B, September 1991.
- "Guide for Conducting Treatability Studies under CERCLA: Soil Washing," EPA/540/2-91/020B, September 1991.
- "Selected Alternative and Innovative Treatment Technologies for Corrective Action and Site Remediation," EPA/540/8-91/092, 1991.
- "Characterizing Heterogeneous Wastes: Methods and Recommendations," EPA/600/R-92/033, Feb. 1992.
- "Final Guidance for Data Useability in Risk Assessment," (Parts A & B), OSWER Directive 9285.7-09A, April 1992.
- "Literature Survey of Innovative Technologies for Hazardous Waste Site Remediation: 1987 - 1991," EPA/542/B-92/004, July 1992.
- "Handbook of RCRA Ground-Water Monitoring Constituents: Chemical and Physical Properties," EPA/530/R-92/022, September 1992.
- "Ground-Water Monitoring: Draft Technical Guidance," EPA/530-R-93-001, November 1992.
- "Statistical Training Course for Ground-Water Monitoring Data Analysis," EPA/530/R-93/003, 1992.
- "Guidance for Evaluating the Technical Impracticability of Ground-Water Restoration," OSWER Directive 9234.2-25, September 1993.
- "RCRA Corrective Action Plan," OSWER Directive 9902.3-2A, May 1994.
- "Ecological Risk Assessment Guidance for RCRA Corrective Action," U.S. EPA, Region 5, Interim Draft, October 1994.
- "Land Use in the CERCLA Remedy Selection Process," OSWER Directive 9355.7-04, May 25, 1995.
- "Standard Guide for Risk Based Corrective Action Applied to Petroleum Release Sites," ASTM E-1739-95, November 1995. (As approved by Region 5 guidance policy)
- "Conducting Risk-Based Corrective Action for Federally-Regulated UST Petroleum Releases," U.S. EPA, Region 5, December 7, 1995.
- "Sitting at the RCRA Data Quality Level Table, Update 1," U.S. EPA, Region 5, Memorandum, December 14, 1995.

References

"Soil Screening Guidance: Users Guide," OSWER Publication 9355.4-23, April 1996.

"Soil Screening Guidance: Technical Background Document," EPA/540/R-95/128, May 1996.

"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.

"Region 9 Preliminary Remediation Goals (PRGs) 1996," U.S. EPA, Region 9, Annual Update, August 1, 1996.

"Region 5 Ecological Data Quality Levels," Final Report, August 26, 1996.

"EPA's Proposed Guidelines for Ecological Risk Assessment," 61 Fed. Reg. 47552, September 9, 1996. (Note: Final document to be released in early-1998.)

"Corrective Action Principles," U.S. EPA, Region 5, Memorandum, November 19, 1996.

"Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments," Interim Final, EPA/540/R-97/006, June 5, 1997.

"Ecological Data Quality Levels, RCRA Appendix IX Hazardous Constituents," U.S. EPA, Region 5, Draft Report, August 18, 1997.

GENERAL INFORMATION:

"OSWER Directives - System Catalog," OSWER Directive 9013.15-3D, March 1992. (Provides a list of OSWER Directives published through March 1991.)

"Technical Support Services for Superfund Site Remediation and RCRA Corrective Action" (third edition), EPA/540/8-91/091, March 1992.

"Accessing Federal Data Bases for Contaminated Site Clean-Up Technologies," EPA/540/8-91/008, May 1991.

"Memorandum on the Use of Supplemental Environmental Projects, Amendment to GM 22," James M. Strock, February 12, 1991.

References

USEFUL TELEPHONE NUMBERS:

RCRA/CERCLA/UST Hotline

(800) 424-9346

EPA's Office of Research and Development publishes occasional ground water and engineering issue papers. For information contact:

ORD Publications Office, Center for Environmental Research Information (CERI), (513) 569-7562

National Technical Information Services (NTIS)(703) 487-4650 (800) 553-6847

ATTACHMENT VII
Acknowledgment of Termination

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Acknowledgment of Termination

ACKNOWLEDGMENT OF TERMINATION and
AGREEMENT TO RECORD PRESERVATION AND RESERVATION OF RIGHTS

1. The United States Environmental Protection Agency (U.S. EPA) agrees and acknowledges that the terms of Order RCRA- - - issued by U.S. EPA on _____, 19____ (Order), including any additional tasks determined by U.S. EPA to have been required pursuant to the Order, but excluding Section XIII: Record Preservation, have been satisfactorily completed based upon the information presently available to U.S. EPA.
2. Respondent agrees and acknowledges that the terms of Section XIII: Record Preservation remain in effect until _____, 20____ (date 6 years after termination of the Order).
3. Respondent agrees and acknowledges that Respondent's completion of the terms of the Order does not limit or otherwise preclude U.S. EPA from taking additional enforcement action pursuant to Section 3008(h) of the Solid Waste Disposal Act, commonly referred to as the Resource Conservation and Recovery Act of 1976 (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984, 42 U.S.C. §6928(h), or other available legal authorities, should U.S. EPA determine that such actions are warranted.
4. Respondent agrees and acknowledges that Respondent's completion of the terms of the Order does not relieve Respondent of its obligations to comply with RCRA or any other applicable local, State, or Federal laws and regulations.

IT IS SO AGREED AND ACKNOWLEDGED:

Date: _____ By: _____
(Name),(Title)
(Respondent)

Date: _____ By: _____
Margaret M. Guerriero, Director
Land and Chemicals Division
United States Environmental Protection Agency, Region 5
(Petitioner)

Attachment 8
SWMUs and AOCs

SWMUs and AOCs Identified in June 1990 Harshaw Site PA/VI

<u>SWMU No.</u>	<u>Description</u>	<u>Status under Order</u>
1	Container Storage Area	Excluded – not located on the Facility (closed February 1992) Excluded from RFI upon submission of confirming documentation – closed February 1992
2	Tank T-5	
3	Tank T-2	
4	Fluoroborate Wastewater Treatment System (WWTS) (including Tank T-1)	
		Remainder: Included
5	Nickel WWTS	Included
6	H _F WWTS	Included
7	Fixed-Bed Reaction Tower WWTS	Included
8	Metal Plating Collection System	Included
9	Color-Plate Collection System	Included
10	Electrolus Copper Collection System	Included
11	BF ₃ Collection System	Included
12	Milling Area Trench	Included
13	Fluoride Process Collection Trench	Included
14	K-1 Trenches	Included
15	Former Small Product Pollution Treatment System	Included
16	Former Nibrite Pollution Treatment System	Included
17	Former Pentavalent Antimony Oxide Treatment System	Included
18	Former Acetate Pollution Treatment System	Included
19	Fixed-Bed Reaction Towers and Pipes	Included
20	T-2 Pipe and Loading Station	Included
21	Landfill A	Included
22	UST Waste Pile	Included
23	Scrap Yard A	Included
24	Scrap Yard B	Included
25	Demolished Nickel Sulfate Building Staging Area	Excluded – not located on the Facility
26	Sludge Pad	Included
27	Sludge Rolloff Box	Included
28	Sludge Transport Container	Included
29	Sludge Dollies	Included
30	South Empty Drum Storage Area	Included
31	North Empty Drum Storage Area	Included
32	Sanitary Sewer	Included
33	Storm Sewer	Included

CERTIFICATE OF SERVICE

I hereby certify that an original signed copy of the Administrative Order on Consent for the BASF Corporation was filed on March 30, 2010, with the Regional Hearing Clerk (E-19J), U.S. Environmental Protection Agency, Region 5, 77 West Jackson Boulevard, Chicago, Illinois, 60604, and that I mailed by Certified Mail, Receipt No. 7001 0320 0006 0192 6043, a second original signed copy to Respondent:

Ms. Nancy Lake Martin
BASF Catalysts
100 Campus Drive
Florham Park, New Jersey 07932

And forwarded copies (intra-Agency) to:

Steve Mendoza, ORC Section Chief



Diane Debus
Remediation and Reuse Branch
U.S. EPA- Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Docket No. RCRA-05-2010-0013