ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 136

[FRL-2737-4]

Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act; Correction and Extension of Comment Period on Interim Final Rule

AGENCY: Environmental Protection Agency (EPA).

ACTION: Interim final and final rule; corrections and extension of the comment period on the Interim Final portion of the rule.

SUMMARY: EPA is correcting the Preamble, Final and Interim Final Regulations and Appendices to regulations establishing Guidelines for Test Procedures for the Analysis of Pollutants Under the Clean Water Act which was published in the Federal Register of October 26, 1984, 49 FR 43234. In response to requests to allow for a longer time period to review the supporting record, EPA is extending the comment period by sixty days.

FOR FURTHER INFORMATION CONTACT: Dr. Robert Medz, Environmental Monitoring Systems Division, Office of Research and Development (RD-680), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, Telephone Number: (202) 382-5792.

DATE: Comments on the Interim Final Rule must be submitted on or before February 25, 1985.

SUPPLEMENTARY INFORMATION: In FR Doc. 84-26189 appearing at page 43234 in the Federal Register of Friday, October 26, 1984, EPA published a preamble, a Final and Interim Final Regulation and Appendices establishing guidelines for Test Procedures for the Analysis of Pollutants Under the Clean Water Act. The Preamble and Appendices contained typographical and other errors which EPA is today correcting. In addition, EPA is correcting the citations of several supporting documents to indicate that they are available through the National Technical Information Service (NTIS).

In response to several requests for an extension of the comment period, the EPA is extending the end of the comment period by sixty days from December 26, 1984 to February 25, 1985.

EPA has discovered that several approved test procedures were inadvertently omitted. The following tables and paragraphs indicate the omitted test procedures, and the references from which they are incorporated. Incorporation by reference of these references has been approved as of the effective dates published in 49 FR 43234 by the Director of the Federal Register.

Table/parameter method	Reference from which incorporated
IA. Coliform (fecal) in presence of chlorine MF:—909C	Standard Methods for the Examination of Water and Wastewater, 15th Edition, 1981.
—page 124	Microbiological Methods for Monitoring the Environment, Water, and Wastes, EPA-600/8-78-017, 1978.
—B-0050-77	Methods for Collection and Analysis of Aquatic, Biological, and Microbiological Samples, USGS, TWRI, Book 5, Chapter A4, 1977.
IB. Hardness, EDTA Titration—page 556.	Official Methods of Analysis of the Association of Official Analytical Chemists, 13th Edition, 1980.
Hydrogen ion, pH, Electrometric—page 547.	Ibid.
Manganese, periodate—page 227.	Standard Methods for the Examination of Water and Wastewater, 14th Edition, 1976.
Nitrate (as N), brucine sulfate: —page 427	Ibid.
—I-1540-78	Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS, TWRI, Book 5, Chapter 1A, 1979.
Potassium, cobaltinitrite—page 235.	Standard Methods for the Examination of Water and Wastewater, 14th Edition, 1976.
Silver, Dithizone—324B.	Standard Methods for the Examination of Water and Wastewater, 15th Edition, 1981.
Sodium, flame photometric—325.B.	Ibid.
Sulfate (Barium chloroanilate)—375.1.	Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
Vanadium (gallic acid)—327B.	Standard Methods for the Examination of Water and Wastewater, 15th Edition, 1981.
Zinc (Dithizone)—328C.	Ibid.

These test procedures were all approved in 1976 and have appeared unchanged in subsequent editions of the Code of Federal Regulations (CFRs). Today's correction reprints the test procedures in the list of approved methods.

In Table IA, parameter 2, Coliform (fecal) in the presence of Chlorine, number per 100 mL, EPA inadvertently omitted the membrane filter (MF) test procedure from the list of Approved Biological Test Procedures. In the October 26, 1984 regulation, EPA did not promulgate any substantive changes in the methods for fecal coliform in the presence of chlorine. Today's correction simply reprints the first two parameters and the accompanying footnotes of Table IA as they should have appeared in the October 26, 1984 printing. The remainder of Table IA and Table IA Notes are free of errors and are therefore not reprinted here.

In Table IB, the "automated barium chloroanilate" test procedure for Sulfate (parameter 65) was inadvertently changed to the "automated methylthymol blue" test procedure. The "methylthymol blue" test procedure was not proposed, and this change was not intended. This correction will reprint the "barium chloroanilate" test procedure which was approved in 1976 and has appeared in subsequent editions of the CFRs.

In Table IB several changes were made to improve the descriptors which identify the approved test procedures. However, the approved atomic absorption test procedure for Arsenic and Selenium (parameters 6 and 60, respectively) was incompletely designated "Hydride" in the October 26, 1984 printing. With this notice, the descriptor is corrected to read "Atomic absorption (gaseous hydride)".

The test procedures approved in 1976 for measurements of Nitrate and Nitrite (Parameters 38 and 40 of Table IB) have not been changed, though the titles have been altered. Although it appears that a new parameter, Nitrate-nitrite (as N) (parameter 39) has been added, this new parameter listing is merely a clearer way to identify the test procedure for a previously approved method. For the test procedures (other than Brucine sulfate) which were approved in 1976 for the measurement of "Nitrate", it was necessary to first determine "Nitrate plus Nitrite" and "Nitrite" as separate determinations. "Nitrate" was then determined by subtracting the "Nitrite" determinations from the "Nitrate plus Nitrite". In the October 26, 1984 printing, in order to clarify these relationships, EPA retained the "Brucine sulfate" test procedure descriptor unchanged, but modified the remaining descriptors which appeared in the 1976 approved test procedures list to a single descriptor "Nitrate-nitrite N minus Nitrite N". To further emphasize these relationships, Nitrate-nitrite N was added as a "new" parameter.

In Tables IC and ID two approved test procedures which were approved in the final rule were inadvertently omitted. EPA omitted EPA Method 610 (High Pressure Liquid Chromatography) from the list of approved test procedures for Napthalene in Table IC (Test Procedures for Organic Compounds), and EPA Method 625 (Gas Chromatography/Mass Spectrometry) from the list of approved test procedures for Heptachlor epoxide in Table ID (Test Procedures for Pesticides). This notice corrects these errors of omission.

In Table II the holding time for "Filterable residues" was incorrectly given as "48 hours". This notice corrects

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the October 26, 1984 printing to the correct value of "7 days".

EPA is correcting these errors and other typographical errors in the final regulation.

Dated: December 11, 1984.

Bernard D. Goldstein,

Assistant Administrator, Office of Research and Development.

Authority: Sections 301, 304(h), 307 and 501(a), Pub. L. 95-217, 91 Stat. 1566, et seq. (33 U.S.C. 1251, et seq.) (the Federal Water Pollution Control Act Amendments of 1972 as amended by the Clean Water Act of 1977).

The following corrections are made in FR Doc. 84-26189 appearing on 43234 in the issue of October 26, 1984:

1. On page 43234, SUMMARY, column 1, line 25, change "preservations" to "preservation".

2. On page 43234, column 2, lines 44-46, change "Water and Waste Management Monitoring Research Division" to "Environmental Monitoring Systems Division".

3. On page 43234, column 2, line 50, change "5788" to "5792".

4. On page 43234, column 3, line 3, change "5788" to "5792".

5. On page 43236, column 2, lines 19 and 42, change "(CBOD)" to "(CBOD$_5$)".

6. On page 43237, column 1, line 1, change "pressure" to "performance".

7. On page 43240, column 3, line 62, change "basis quality control criteria" to read "basis of the quality control criteria".

8. On page 43244, EXHIBIT 3, footnote 1, change "asterisked" to "indicated".

9. On page 43244, EXHIBIT 4, footnote 1, change "asterisked" to "indicated".

10. On page 43245, column 3, line 51, change "occuring" to "occurring".

11. On page 43248, column 1, lines 16 and 22, change "BOD" to "5-day BOD".

12. On page 43248, column 3, line 7, change "4(e)" to "IV(E)".

§ 136.3 [Corrected]

13. On page 43251, in § 136.3, Table IA, the first and second entries and footnotes 1 through 4 are corrected, and footnote 4A is added to read as follows:

TABLE IA.—LIST OF APPROVED BIOLOGICAL TEST PROCEDURES

Parameters and units	Method[1]	EPA[2]	Standard methods 15th ed.	ASTM	USGS[3]
Bacteria:					
1. Coliform (fecal) number per 100 ml	MPN, 5 tube, 3 dilution; or, membrane filter (MF)[4], single step.	Page 132	908C		
2. Coliform (fecal) in presence of chlorine number per 100 ml.	MPN, 5 tube, 3 dilution; or, MF[4], single step.[4A]	Page 124	909		B-0050-77.
3. * * *		Page 132	908C		
4. * * *		Page 124	909C		B-0050-77.
5. * * *					

[1] The method used must be specified when results are reported.

[2] "Microbiological Methods for Monitoring the Environment, Water and Waste, 1978", EPA-600/8-78-017, U.S. Environmental Protection Agency.

[3] Greeson, P.E., *et al.*, "Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples, "U.S. Geological Survey, Techniques of Water-Resources Investigations, Book 5, Chapter A4, Laboratory Analysis, 1977.

[4] 0.45 μm membrane filter or other pore size certified by the manufacturer to fully retain organisms to be cultivated, and free of extractables which could interfere with their growth and development.

[4A] Since the membrane filter technique usually yields low and variable recovery from chlorinated wastewaters, the MPN method will be required to resolve any controversies.

14. On page 43251, Table IB, parameter 6, Arsenic, change the method descriptor "Hydride" to "AA (gaseous hydride)".

15. On page 43252, Table IB, parameter 17, Chlorine, delete the first three methods and the respective references and replace with the following methods and references to read:

Iodometric titrimetric[12], amperometric direct, or,	330.1	408C	D1253-76(A)	———
starch-iodine end point.	330.3	408A	D1253-76(B)	———

16. On page 43252, Table IB, parameter 27, Hardness, opposite the method descriptor, "EDTA titration" under the reference column heading "Other", incorporate the reference citation "P. 556 [6]".

17. On page 43253, Table IB, parameter 28, Hydrogen ion (pH) under the reference column heading "Other", incorporate the reference citation "P. 547 [6]".

18. On page 43253, Table IB, parameter 31, Kjeldahl nitrogen, under the reference column heading "USGS" move references down one space so that reference "I-4551-78" is opposite the "Automated phenate" method descriptor and reference "I-4552-78" is opposite the "Semi-automated block digestor" method descriptor.

19. On page 43253, Table IB, parameter 34, opposite the method descriptor "Periodate" under the reference column heading "Other" incorporate the reference citation "P. 227 [28]".

20. On page 43253, Table IB, parameter 38, Nitrate, opposite the method descriptor "Brucine sulfate" under the reference column heading "Other", incorporate the reference citation "P. 427 [28]"; and under the reference column heading "USGS" incorporate the reference citation "I-1540-78".

21. On page 43253, Table IB, parameter 44, Orthophosphate under the reference column heading "Other" move the reference citation "P. 561 [2]" down two lines so that it is opposite the method descriptor "manual single reagent".

22. On page 43254, Table IB, parameter 52, Potassium, under the parameter and method column, change the method descriptor "Or flame photometric" to "Flame photometric" and add the method descriptor "Colorimetric (Cobaltinitrite)" immediately below the descriptor "Flame photometric, or"; opposite the method descriptor "Colorimetric (Cobaltinitrite)" under the reference column heading "Other", incorporate the reference citation "P. 235 [28]".

23. On page 43254, Table IB, parameter 60, Selenium, change the method descriptor "Hydride" to "AA (gaseous hydride)".

24. On page 43254, Table IB, parameter 62, Silver, after "AA furnace" delete the word "or" and insert the method descriptor "Colorimetric (Dithizone), or" in the line between "AA furnace" and "Inductively coupled plasma"; opposite the method descriptor "Colorimetric (Dithizone), or" under the reference column heading "Standard Methods, 15th edition" incorporate the reference citation "324B".

25. On page 43254, Table IB, parameter 63, Sodium, opposite the method descriptor "Flame photometric" under the column heading "Standard

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Methods, 15th edition", incorporate the reference citation "325B".

26. On page 43254, Table IB, parameter 65, Sulfate, change the method descriptor "Automated methylthymol blue" to "Automated colorimetric (barium chloroanilate)" and change the incorporated reference under EPA from "375.2" to "375.1"; delete the reference "I-2822-78" under the USGS column.

27. On page 43254, Table IB, parameter 74, Vanadium, opposite the method descriptor "Colorimetric (Gallic acid)" under the reference column heading "Standard Methods, 15th edition", incorporate the reference citation "327B".

28. On page 43254, Table IB, parameter 75, Zinc, insert a line between the method descriptor "Inductively coupled plasma" and "Colorimetric (Zincon)", and insert the method descriptor "Colorimetric (Dithizone)"; opposite the method descriptor "Colorimetric (Dithizone)" under the reference column heading "Standard Methods, 15th edition" incorporate the reference citation "328C".

29. On page 43255, Table IB, footnote 7, line 2, change "traditional $CBOD_5$" to read "traditional BOD_5".

30. On page 43255, Table IB Notes, add a new footnote to read: [28] The approved method is that cited in the "Standard Methods for the Examination of Water and Wastewater", 14th edition, 1976.

31. On page 43255, Table IC, parameter 11, change "(ghi)" to read "(g,h,i)".

32. On page 43255, Table IC, parameter 13, change "Chloride" to "chloride".

33. On page 43255, Table IC, parameter 14, change "Butyl Phthalate" to "butyl phthalate".

34. On page 43256, Table IC, parameter 66, change "Chloride" to "chloride".

35. On page 43256, Table IC, parameter 67, change "2-Methyl-4,6-Dinitrophenol" to "2-Methyl-4,6-dinitrophenol".

36. On page 43256, Table IC, parameter 68 under the column labeled HPLC, delete the "....." and add "610".

37. On page 43256, Table IC, parameter 75, change "2,2-oxybis(1-chloropropane)" to "2,2'-Oxybis(1-chloropropane)".

38. On page 43256, Table IC, parameter 97, change "Chloride" to "chloride".

39. On page 43257, Table ID, the method descriptor following parameter 42 "GC/MS 625" should be moved up one line to accompany parameter 41 and read as follows:

41. Heptachlor epoxide	GC	608	509A	D3086	Note 3, p. 7; Note 4, p. 30; Note 6, p. S73.
	GC/MS	625			

40. On page 43257, Table ID, parameter 42, should read:

42. Isodrin	GC				Note 4, p. 30; Note 6, p. S73.

41. On page 43257, Table ID, parameter 56, change "Prometon" to "Prometror".

42. On page 43258, in column 2 of the Table of References, Sources and Costs, add parameters 34, 38 immediately before and 52 immediately after parameter 48 to the list of parameters on line 7 which are found in Table IB and which are incorporated by reference from the 14th edition of "Standard Methods for the Examination of Water and Wastewater."

43. On page 43258, in column 2 of the Table of References, Sources, and Costs, add parameter 2 between parameters 1 and 3 on line 12, which are found in Table IA and which are incorporated by reference from the USGS Methods for Collection and Analysis of Aquatic, Biological, and Microbiological Samples.

44. On page 43258, Table of References, Sources, and Costs, move line 11 "IB-EPA" in column 1, and line 13 "1-13, 15-48, 50-75" in column 2 down so they are opposite the EPA reference on line 24 of column 3, entitled "Methods for Chemical Analysis of Water and Wastes".

45. On page 43259, in column 2 of the Table of References, Sources, and Costs, add parameters 27 and 28 between parameters 22 and 30 to the list of parameters on line 3 which are found in Table IB and which are incorporated by reference from "Official Methods of Analysis of the Association of Official Analytical Chemists," 13th Edition, 1980.

46. On page 43260, Table II, under the column heading "Maximum holding time" for parameter 54, Residue, Filterable, change "48 hours" to "7 days".

47. On page 43262, column 2, section 6.3.1, change "Barnebey" to "Barnabey".

48. On page 43265, column 3, change reference 9 to read:

9. "EPA Method Study 24, Method 601—Purgeable Halocarbons by the Purge and Trap Method," EPA 600/4-84-064, National Technical Information Service, PB84-212448, Springfield, Virginia 22161, July 1984.

49. On page 43268, delete the handwritten number "-170-" from the bottom of the page.

50. On page 43275, column 1, section 8.7, line 7, change "recommended to encompass" to "that encompass".

51. On page 43276, column 1, change reference 2 to read:

2. Lichtenberg, J.J. "Determining Volatile Organics at Microgram-per-Litre-Levels by Gas Chromatography," Journal American Water Works Association, 66, 739 (1974).

52. On page 43276, column 3, change reference 9 to read:

9. "EPA Method Study 25, Method 602, Purgeable Aromatics," EPA 600/4-84-042, National Technical Information Service, PB84-196682, Springfield, Virginia 22161, May 1984.

53. On page 43283, column 2, section 8.2.5, line 2, delete "either".

54. On page 43284, column 3, change reference 3 to read:

3. "Evaluate Test Procedures for Acrolein and Acrylonitrile," Special letter report for EPA Project 4719-A, U.S. Environmental

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rotection Agency, Environmental Monitoring nd Support Laboratory, Cincinnati, Ohio 5268, 27 June 1979.

55. On page 43284, column 3, change eference 9 to read:

9. "Evaluation of Method 603 (Modified)," PA-600/4-84-ABC, National Technical formation Service, PB84-, Springfield, irginia 22161, Nov. 1984.

56. On page 43293, column 2, section .2.2, line 3, change "vapor" to xcess".

57. On page 43294, column 3, change ference 2 to read:

2. "Determination of Phenols in Industrial d Municipal Wastewaters," EPA 600/4-84-BC, National Technical Information Service, XYZ, Springfield, Virginia 22161, Nov. 84.

58. On page 43295, column 3, change ference 13 to read:

13. "EPA Method Study 14 Method 604-enols," EPA 600/4-84-044, National chnical Information Service, PB84-196211, ingfield, Virginia 22161, May 1984.

59. On page 43303, column 1, change erence 2 to read:

. "Determination of Benzidines in ustrial and Muncipal Wastewaters," EPA /4-82-022, National Technical Information vice, PB82-196320, Springfield, Virginia 61, Apr. 1982.

60. On page 43303, column 3, change erence 10 to read:

0. "EPA Method Study 15, Method 605 nzidines)," EPA 600/4-84-062, National hnical Information Service, PB84-211176, ingfield, Virginia 22161, June 1984.

1. On page 43309, columns 2 and 3, nge reference 2 to read:

"Determination of Phthalates in ustrial and Muncipal Wastewaters," EPA 4-81-063, National Technical Information vice, PB81-232167, Springfield, Virginia 1, July 1981.

2. On page 43309, column 3, at the of reference 12, replace the period a comma and add the date "June).".

3. On page 43309, column 3, change rence 13 to read:

. "EPA Method Study 16 Method 606 alate Esters)," EPA 600/4-84-056, onal Technical Information Service, -211275, Springfield, Virginia 22161, June

. On page 43317, column 3, change ence 4 to read:

"Determination of Nitrosamines in strial and Municipal Wastewaters," EPA -82-016, National Technical Information ce, PB82-199621, Springfield, Virginia , Apr. 1982.

. On page 43318, column 3, at the of reference 22, replace the period with a comma and add the date "June 1980.".

66. On page 43318, column 3, change reference 23 to read:

23. "EPA Method Study 17 Method 607—Nitrosamines," EPA 600/4-84-051, National Technical Information Service, PB84-207646, Springfield, Virginia 22161, June 1984.

67. On page 43325, column 3, change reference 2 to read:

2. "Determination of Pesticides and PCBs in Industrial and Municipal Wastewaters," EPA 600/4-82-023, National Technical Information Service, PB82-214222, Springfield, Virginia 22161, April 1982.

68. On page 43326, column 1, replace the period at the end of Reference 17 with a comma and add the date "June 1980.".

69. On page 43326, column 1, change Reference 18 to read:

18. "EPA Method Study 18 Method 608—Organochlorine Pesticides and PCBs," EPA 600/4-84-061, National Technical Information Service, PB84-211358, Springfield, Virginia 22161, June 1984.

70. On page 43326, Table 1, in the column under the heading "Method detection limit", change line 2 from "0.00" to "0.004"; change line 3 from "0.00" to "0.006".

71. On page 43326, Table 3, in the column under the heading "Range for X" change ".98-2.44" to "0.98-2.44".

72. On page 43326, column 3, Table 4, under the column heading "Overall precision" change line 3 from "0.33X-0.95" to "0.33X-0.05".

73. On page 43341, column 1, change Reference 2 to read:

2. "Determination of Nitroaromatic Compounds and Isophorone in Industrial and Municipal Wastewaters," EPA 600/4-82-024, National Technical Information Service, PB82-208398, Springfield, Virginia 22161, May 1982.

74. On page 43341, column 2, at the end of Reference 10 replace the period with a comma and add the date "June 1980.".

75. On page 43341, column 2, change Reference 11 to read:

11. "EPA Method Study 19, Method 609 (Nitroaromatics and Isophorone)," EPA 600/4-84-018, National Technical Information Service, PB84-176908, Springfield, Virginia 22161, Mar. 1984.

76. On page 43349, column 1, Reference 2, replace the citation after the end of the title "Wastewaters," with the following text:

EPA 600/4-82-025, National Technical Information Service, PB82-258799, Springfield, Virginia 22161, June 1982.

77. On page 43349, column 2, change reference 12 to read:

12. "EPA Method Study 20, Method 610 (PNA's)," EPA 600/4-84-063, National Technical Information Service, PB84-211614, Springfield, Virginia 22161, June 1984.

78. On page 43357, column 1, Reference 2, replace lines 3-6 with the following lines:

EPA 600/4-81-062, National Technical Information Service, PB81-232290, Springfield, Virginia 22161, July 1981.

79. On page 43357, column 2, change reference 12 to read:

12. "EPA Method Study 21, Method 611, Haloethers," EPA 600/4-84-052, National Technical Information Service, PB84-205939, Springfield, Virginia 22161, June 1984.

80. On page 43364, column 2, in Reference 2 change the text of lines 3 and 4 to read:

Wastewaters, "EPA 6090/4-84-ABC, National Technical Information Service, PBXYZ, Springfield, Virginia, 22161 November 1984.

81. On page 43364, column 3, change Reference 11 to read:

11. "EPA Method Study Method 612—Chlorinated Hydrocarbons," EPA 600/4-84-039, National Technical Information Service, PB84-187772, Springfield, Virginia 22161, May 1984.

82. On page 43373, column 1, change Reference 2 to read:

2. "Determination of TCDD in Industrial and Municipal Wastewaters," EPA 600/4-82-028, National Technical Information Service, PB82-196882, Springfield, Virginia 22161, Apr. 1982.

83. On page 43373, column 3, change Reference 15 to read:

15. "EPA Method Study 26, Method 613: 2,3,7,8-Tetrachlorodibenzo-p-dioxin," EPA 600/4-84-037, National Technical Information Service, PB84-188879, Springfield, Virginia 22161, May 1984.

84. On page 43373, column 3, Table 1, delete comma after 8 to read: 2,3,7,8-TCDD.

85. On page 43378, column 2, Reference 11, replace line 4 by: "May 14, 1980.".

86. On page 43378, column 2, change Reference 12 to read:

12. "EPA Method Study 29 EPA Method 624—Purgeables," EPA 600/4-84-054, National Technical Information Service, PB84-209915, Springfield, Virginia 22161, June 1984.

87. On page 43385, column 1, section 1.3, line 2, after the word "method" add two references to read as follows: "method 2.14".

88. On page 43385, column 1, section 2.1, line 13, delete the word "internal or external or".

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. On page 43386, column 3, section line 13, change "masses" to "m/z ntities".

). On page 43389, column 2, section , lines 1 and 2, delete the phrase, "If internal standard calibration cedure is being used", and use the ainder of the sentence as the first tence of section 13.3 to read as ows: "The internal standard must be led to the sample extract and mixed roughly immediately before it is ected into the instrument."

1. On pay 43390, column 2, change te at the end of Reference 13 to "May 1980.".

2. On page 43390, column 2, change ference 14 to read:

14. "EPA Method Study 30, Method 625, se/Neutrals, Acids, and Pesticides," EPA 0/4-84-053, National Technical Information rvice, PB84-206572, Springfield, Virginia 161, June 1984.

93. On page 43390, column 2, Table 1, ange "Bis(2-chloroethyl)-ether" to Bis(2-chloroethyl) ether".

94. On page 43390, column 2, Table 1, ange "Bis(2-chloroisopropyl) ether" to Bis(2-chloroisopropyl) ether *" and add footnote to Table 1 to read: "* The roper chemical name is 2,2'-oxybis(1-hloropropane)".

95. On page 43390, Table 4, add a new ootnote "*" after the parameter "Bis(2-hloroisopropyl) ether" to read: "Bis(2-hloroisopropyl) ether *".

96. On page 43391, Table 4, change 'Diethylphthalate" to "Diethyl phthalate".

97. On page 43391, Table 4, line 21, under column heading "Secondary" change the number "338" to "339".

98. On page 43391, Table 4, line 42, change "Indeno (1, 2, 3-c; d) pyrene" to "Indeno(1, 2, 3-cd) pyrene".

99. On page 43391, Table 4, change footnote designations "a" after parameters on lines 8, 10, 12, 21, 26, 27, 29, and 45 to footnote "b".

100. On page 43391, Table 4, change footnote designations "b" after parameters of lines 46-54 to footnote "c".

101. On page 43391, Table 4, add a new footnote "α" to read: "a The proper chemical name is 2,2'-bisoxy(1-chloropropane)".

102. On page 43391, Table 4, change footnote designation "*" to "b".

103. On page 43391, Table 4, change footnote designation "b" to "c" and merge the three lines of footnote text to read:

"c These compounds are mixtures of various isomers (See figures 2 through 12). Column conditions: Supelcoport (100/120 mesh) coated with 3% SP-2250 packed in a 1.8 m long x 2 mm ID glass column with helium carrier gas at 30 mL/min flow rate. Column temperature held isothermal at 50 °C for 4 min, then programmed at 8 °C/min to 270 °C and held for 30 min."

104. On page 43392, Table 6, line 13, change "Bis(2-chloroethyl)ether" to "Bis(2-chloroethyl) ether".

105. On page 43392, Table 6, line 15, change "Bis(2-chloroisopropyl)ether" to "Bis(2-chloroisopropyl) ether *".

106. On page 43392, Table 6, line 16, change "Bis(2-ethylhexyl)-phthalate" to "Bis(2-ethylhexyl) phthalate".

107. On page 43392, Table 6, line 35, change "Di-n-octylphthalate" to "Di-n-octyl phthalate".

108. On page 43392, Table 6, at the bottom of the table after the NOTE, add a new footnote "a" to read:

"*The proper chemical name is 2,2'oxybis(1-chloropropane)".

109. On page 43392, Table 7, line 13, change "Bis(2-chloroethyl)-ether" to "Bis(2-chloroethyl) ether".

110. On page 43393, Table 7, line 2, change "Bis(2-chloroisopropyl)-ether" to "Bis(2-chloroisopropyl) ether *."

111. On page 43393, Table 7, line 3, change "Bis(2-ethylhexyl)-phthalate" to "Bis(2-ethylhexyl) phthalate".

112. On page 43393, Table 7, line 22, change "Di-n-octylphthalate" to "Di-n-octyl phthalate".

113. On page 43393, Table 7, add a new footnote "a" to read:

"* the proper chemical name is 2,2'oxybis(1-chloropropane)".

114. On page 43393, Table 8, lines 10 and 11, change the parameters "1-Fluoronaphthylene" and "2-Fluoronaphthylene" to "1-Fluoronaphthalene" and "2-Fluoronaphthalene".

115. On page 43407, column 1, section 2.3, line 5, delete the words "or external".

116. On page 43408, column 1, section 6.5.1.2, line 5, change "approx" to "approximately".

117. On page 43408, column 3, section 6.7.4, line 1, change "Othe" to "Other".

118. On page 43409, column 1, section 7.4, line 8, delete the words "or external".

119. On page 43409, column 1, section 7.4.3, line 3, change "figure 5" to "figure 6".

120. On page 43410, column 3, section 10.6, delete the sentence on lines 15-17 which reads: An example of the . . . shown in figure 5.

121. On page 43412, column 1, change Reference 9 to read:

9. "EPA Method Study 29 EPA Method 624—Purgeables," EPA 600/4-84-054, National Technical Information Service, PB84-209915, Springfield, Virginia 22161, June 1984.

122. On page 43412, column 1, Table 1, line 16, for 1,2-dichloroethane, change the Storet number from "32103" to "34536".

123. On page 43412, column 3, Table 3, insert a new mass 175 and intensity required and change limits for mass 176 to read:

174	.....
175	5 to 9 percent of mass 174
176	95 to 101 percent of mass 174

124. On page 43416, column 1, section 2.3, line 5, delete the words "or external".

125. On page 43416, column 2, section 4.2, line 4, insert "benzidine" between the colon and "benzo(a)anthracene".

126. On page 43416, column 2, section 4.2, line 7, change "B-naphthylamine" to "β-naphtylamine".

127. On page 43416, column 3, section 5.5, line 2, change "(q" to "±".

128. On page 43417, column 1, section 6.7, line 15, change "ug/mL" to "μg/mL".

129. On page 43417, column 2, section 6.13, line 9, change "10uL" to "10 μL".

130. On page 43417, column 3, section 7.3.1, lines 4 and 5, change "ug/mL" to "μg/mL".

131. On page 43417, column 3, section 7.4, line 8, delete the words "or external".

132. On page 43422, Table 1, line 20, change "a-picoline (Synfuel)" to "α-Picoline (Synfuel)".

133. On page 43422, Table 3, line 30 (EGD 234), change "2,4-dimethyl phenol" to "2,4-dimethyl phenol-d3".

134. On page 43424, Table 4, after the Temperature program footnote, change "; 30-250 °C" to "; 8 °C/min to 250 °C".

135. On page 43424, Table 5, line 1 (m/z 51), change "30-80" to "30-60"; and at line 4 (m/z 127), change "30-60" to "40-60".

136. On page 43424, Table 5, add a new specification for m/z 365 and change the intensity required for mass 441 to read:

275	.....
365	greater than 1 percent of mass 198
441	present and less than mass 443

Appendix B to Part 136—[Corrected]

137. On page 43430, section 5, column 3, first line under "where:"

delete the second "=" to read:
where:
X_i; i=1 to n, are the analytical results in

138. On page 43430, section 7.(a), line 4 change the phrase "spike in the matrix at the" to "spike the matrix at this".

139. On page 43430, section 7.(b), line 6, reverse the subscript and superscript of "S" from "S^{A}_{2}" to "S^{2}_{A}" and change "others" to "other".

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140. On page 43431, column 1, Tables of Student's t Values, under column heading "Degrees of freedom", line 6, change "10" to "15".

Appendix C to Part 136—[Corrected]

141. On page 43433, column 3, section 7.6.2, lines 16 to 19, delete the last sentence.

". . . report, May 14, 1980.

[FR Doc. 85-234 Filed 1-3-85; 8:45 am]

BILLING CODE 6560-50-M

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40 CFR Part 136

[FRL-2636-6]

Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act

Correction

In FR Doc. 84-26189 beginning on page 43234 in the issue of Friday, October 26, 1984, make the following corrections:

1. On page 43237, column 1, line 33, change "as" to "a".

2. On page 43239, column 1, last line, change "Table" to "Tables".

3. On page 43242, column 2, EXHIBIT 1, the heading over the last and the next to last columns should be changed to read:

Number of Test Criteria Failures

Start-up [1] *On-going* [2]

4. On page 43243, EXHIBIT 2, last column, line 7, change "HC1" to "HCl".

7. On page 43250, column 2, first paragraph line 2, change "January 22" to "January 24".

§ 136.3 [Corrected]

8. On page 43251, Table IB heading, change "1B" to "IB".

9. On page 43252, Table IB heading, change "1B" to "IB".

10. On page 43253, Table IB heading, change "1B" to "IB".

11. On page 43253, Table IB, parameter 34, change "Maganese" to "Manganese".

12. On page 43254, Table IB heading, change "1B" to "IB".

13. On page 43255, Table IC, parameter 10, change "Benzo(b)fluroanthene" to "Benzo(b)fluoranthene".

14. On page 43257, Table ID, parameter 16, change "Chloropropham" to "Chloropropham".

APPENDIX A TO PART 136—[Corrected]

15. On page 43261, column 1, table in section 1.1, change the CAS No. after trans-1,3-Dichloropropene to "10061-02-6".

16. On page 43261, column 1, table in section 1.1, change "1,1,1-Tetrachloroethane" and "1,1,2-Tetrachloroethane" to "1,1,1-Trichloroethane" and "1,1,2-Trichloroethane".

17. On page 43275, column 3, section 12.2, line 3, change "1000 X MDL" to "100 x MDL."

18. On pages 43278, 43279, and 43280, delete handwritten page numbers "-208-", "-209-" and "-210-" from the bottom of each page, respectively.

19. On page 43282, column 1, section 5.9, line 2, change "weighint" to "weighing".

20. On page 43283, column 1, section 8.1.1, line 1, change "inital" to "initial".

21. On page 43283, column 1, section 8.2.5, line 4, change "prameters" to "parameters".

22. On page 43283, column 2, section 8.4, line 8, remove "of the".

23. On page 43283, column 3, section 8.4.3, line 7, change "outsied" to "outside".

24. On page 43283, column 3, section 8.5, line 8, change "(S_p)" to "(s_p)".

25. On page 43284, column 1, section 10.1 line 7, change "Columnm" to "Column".

26. On pages 43286, 43287, 43288, and 43289 delete the handwritten numbers "-243-", "-244-", "-245-", and "-246-" at the bottom of each page, respectively.

27. On page 43291, column 1, section 5.6.3, line 2, change "issued" to "is used".

28. On page 43294, column 1, section 12.7, line 14, change "volume:Volume" to "volume:volume".

29. On page 43294, column 3, section 14.2, line 10, delete "xc".

30. On pages 43297 and 43298 delete the handwritten numbers "-288-" and "-289-" from the bottom of each of the pages, respectively.

31. On page 43304 delete the handwritten number "325" from the bottom of the page.

32. On pages 43311 and 43312, delete the handwritten numbers "-363-" and "-364-" from the bottom of each page, respectively.

33. On page 43314, column 1, section 5.6.2, line 2, change "Supel" to "Supel-".

34. On pages 43319 and 43320, delete typed numbers "407-" and "408-" from the bottoms of the pages, respectively.

35. On page 43321, column 2, section 2.1, line 5, change "exchagned" to "exchanged".

36. On page 43326, column 3, Table 3, in the first footnote, change the subscript "$_s$=" to lower case "s=".

37. On page 43326, column 3, Table 4, under the column heading "Single analyst precision", line 12, change "0.41$\bar{X}$ + 0.65" to "0.41 $\bar{X}$ − 0.65".

38. On page 43326, column 3, Table 4, in the first footnote, change "$\bar{X}$" to "$\bar{X}'$".

39. On pages 43327 through 43336, delete the typed numbers "-451-" through "-460-" from the bottom of each page, respectively.

40. On page 43339, column 3, section 8.5, change "$\bar{P}O$=90%" to "$\bar{P}$=90%".

41. On pages 43342 and 43343, delete the typed numbers "-496-" and "-497-" from the bottom of each page, respectively.

42. On page 43344, column 3, section 3.2, line 7, change "table 1" to "Table 1".

43. On page 43344, column 3, section 4.1, line 17, change superscript from "identified[4-6]" to "identified[4-6]".

44. On page 43349, column 3, Table 3, line 6 under the heading "Parameter" change syllabification from "Benzo(b)fluo-ranthene" to "Benzo(b)fluor-anthene".

45. On page 43349, column 3, Table 4, under column heading "Overall precision", line 14 (Naphthalene), change "0.41$\bar{X}$−0.74" to "0.41$\bar{X}$ + 0.74".

46. On pages 43350 through 43352, delete the typed numbers "-539-" through "-541-" from the bottom of each of the pages, respectively.

47. On page 43357, column 2, Table 1, first three parameters, delete the space between the prefix "Bis" and the following parenthesis.

48. On pages 43358 and 43359, delete the typed numbers "-578-" and "-579-" from the bottoms of each of the pages, respectively.

49. On page 43361, column 1, section 6.5, line 1, change "(1.00 $\mu g/_{\mu}L$)" to "(1.00 $\mu g/\mu L$)".

50. On page 43362, column 1, section 8.2.1, line 5, change "109" to "10".

51. On page 43362, column 1, section 8.2.4, lines 2 and 3, delete space between the "μ" and the "g" to read "$\mu g/L$".

52. On page 43364, Table 2, third symbol explanation at the bottom of the table, change "P,P_s" to "P, P_s"

53. On pages 43366 and 43367, delete the typed numbers "-614-" and "-615-" from the bottoms of each page, respectively.

54. On page 43368, column 2, section 3.1.1, line 2, change "cleand" to "cleaned".

55. On page 43370, column 1, section 6.10, line 5, change "ML" to "mL".

56. On page 43370, column 1, section 7.1.1, line 9, change "n/z" to "m/z".

57. On page 43373, column 3, Table under section 1.1, change "Trichloroethane" to "Trichloroethane".

58. On page 43378, column 1, section 13.1, line 4, change "m/z quantitate" to "m/z to quantitate."

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59. On page 43378, column 3, Table 4, eighth parameter, change "1,1-Dichloroethene" to "1,1-Dichloroethane".

60. On page 43379, Table 5, for Toluene under the column heading Range for P, change the range from "47–162" to "47–150".

61. On page 43379, Table 5, 29th parameter change "Trichloroethane" to "Trichloroethene".

62. On page 43379, Table 5, change "Trichlorofluoromethene" to "Trichlorofluoromethane".

63. On page 43380, Table 6, change "1,1,2=Trichloroethane" to "1,1,2-Trichloroethane".

64. On page 43380, Table 6, for the 1,1,2-Trichloroethane, under the column heading, Accuracy, change "0.95+1.71" to "0.95C+1.71".

65. On page 43381 through 43384, delete the handwritten numbers "–704–", "–705–", –706–", and "–707–", from the bottom of each of the pages, respectively.

66. On page 43386, column 2, section 6.4 line 2, change "H^2SO^4" to "H_2SO_4".

67. On page 43386, column 3, section 7.2.2, Equation 1, put a line between the numerator and denominator to read:

$$RF = \frac{(A_s)(C_{is})}{(A_{is})(C_s)}$$

68. On page 43389, column 3, section 17, title, line 2, change "(2,3,7,8,TCDD)" to "(2,3,7,8-TCDD)".

69. On page 43390, column 2, Table 1, change "Bis(2-ethylbexl) phthalate" to "Bis(2-ethylhexyl) phthalate".

70. On page 43392, Table 7, under the column heading "Single analyst precision" change "S_r'" to "s_r'".

71. On page 43392, Table 7, under the column heading "Overall precision" on line 11, change "0.3.0x" to "0.30x".

72. On page 43393, Table 7, under column heading "Single analyst precision" change "S_r'" to "s_r'".

73. On pages 43394 through 43406 delete the handwritten numbers "–764–", "–765–", "–766–", "–767–", "–768–", "–769–", "–770–", "–771–", "–772–", "–773–", "–774–", "–775–", and "–776–" from the bottoms of each of the pages, respectively.

74. On page 43409, column 1, section 7.4.2, line 5, insert a division sign "/" between the two parenthesized expressions for area to read: R=(area at m_1/z)/(area at m_2/z).

75. On page 43412, column 1, Table 1, 17th entry, change "1,1-dichloroethane" to "1,1-dichloroethene".

76. On page 43412, column 2, Table 2, line 8, change "Chloroethene-d5" to "Chloroethane-d5".

77. On page 43417, column 2, section 6.13, line 4, change "1.00 μL" to "1.00 mL".

78. On page 43418, column 1, section 7.4.2, line 10, change "$R_x=R_y$" to "$R_x > R_y$".

79. On page 43418, column 1, section 7.4.4, line 20, change "/(R_m-R_y+1)" to "/(R_m-R_x) (R_y+1)".

80. On page 43418, column 1, section 7.4.4, line 21, change "," to read: "R_y".

81. On page 43418, column 2, section 7.5.1, line 1, add a parenthesis after C_s to read: RF=(A_s X C_{is})/(A_{is} X C_s), where

82. On page 43420, column 3, section 13.4, line 1, change "Massesd" to "Masses".

83. On page 43421, column 2, section 16.2, line 1, change "/Ml" to "/mL".

84. On page 43423, Table 3, 21 lines from the bottom (EGD 372), change detection limit from "50" to "10".

85. On page 43424, Table 3, footnote 2, change "accepted" to "acceptable".

86. On page 43424, Table 4, line 1 (EGD 164), change "ins" to "int".

87. On page 43424, Table 4, after the footnote beginning with the word "Column:" change "id.d." to "i.d.".

Appendix B to Part 136—[Corrected]

88. On page 43430, column 3, section 7.(b), second line after the equation, start the line at the left hand margin and merge the following line to read as follows: "calculated MDL and process the samples through the . . ."

Appendix C to Part 136—[Corrected]

89. On page 43434, column 3, section 10.4, line 6, change "+5" to "±5".

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 136

[FRL-2737-3]

Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act; Correction

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed rule; correction.

SUMMARY: This document corrects proposed Guidelines Establishing Test Procedures for the Analysis of Pollutants that appeared at page 43437 in the Federal Register of October 26, 1984 (49 FR 43437), FR Doc. 84-26349. This action is necessary to correct typographical errors.

DATES: Comments on the proposed rule must be submitted on or before January 10, 1985.

FOR FURTHER INFORMATION CONTACT: Dr. Robert Medz, Environmental Monitoring Systems Division, Office of Research and Development (RD-680), 401 M Street, SW., Washington, D.C. 20460. Telephone Number: (202) 382-5792.

Dated: December 11, 1984.

Bernard D. Goldstein,

Assistant Administrator, Office of Research and Development.

The following corrections are made in FR Doc. 84-26349 appearing on 43437 in the issue of October 26, 1984.

1. On page 43437, column 1, under **ADDRESS:**, lines 3 and 4, change "Water and Waste Management Monitoring Research Division" to "Environmental Monitoring Systems Division".

2. On page 43437, column 1, under **FOR FURTHER INFORMATION CONTACT:** line 3, change "5788" to "5792".

3. On page 43437, column 2, line 1, insert after "(GS) methods," the phrase, "2 high pressure liquid chromotography (HPLC) methods,".

4. On page 43437, column 2, line 25, change "matricies" to "matrices".

5. On page 43437, column 3, last paragraph, line 9, change "Tetrachloride" to "tetrachloride".

6. On page 43439, Table IC., parameter 10, change "Acid" to "acid"; parameter 16, change "Butyl Phthalate" to "butyl phthalate"; parameter 42, change "Dibromochlorobenzene" to Dibromochloromethane".

7. On page 43440, Table IC, parameter 85, change "Chloride" to "chloride"; parameter 86, change "Dinitrophenol" to "dinitrophenol".

8. On page 43440, Table IC, parameter 88, Naphthalene, under the column heading HPLC, add "610".

9. On page 43440, Table IC, parameter 113, delete the hyphen between "Tetrachloro" and "dibenzo" to read: "2,3,7,8-Tetrachlorodibenzo-p-dioxin".

10. On page 43440, Table IC, footnote 6, insert "Agency" after the words "United States Environmental Protection".

11. On page 43441, Table ID, parameter 4, change "Atratpm" to "Atraton" and in parameter 22, change "Dementon-S" to "Demeton-S".

[FR Doc. 85-235 Filed 1-3-85; 8:45 am]

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40 CFR Part 136

[FRL-2636-6]

Guidelines Establishing Test Procedures for the Analysis of Pollutants

Correction

In FR Doc. 84-26349 beginning on page 43437 in the issue of Friday, October 26, 1984, make the following correction:

§ 136.3 [Corrected]

In § 136.3, Table ID, page 43441, parameter 17, correct "2,4'-D" to read "2,4-D".

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