

**ENVIRONMENTAL PROTECTION AGENCY****40 CFR Parts 136 and 141**

[FRL-5848-3]

RIN 2040-AC93

**Guidelines Establishing Test Procedures for the Analysis of Pollutants and National Primary Drinking Water Regulations; Flexibility in Existing Test Procedures and Streamlined Proposal of New Test Procedures; Correction, Announcement of Meetings, and Extension of Comment Period****AGENCY:** Environmental Protection Agency (EPA).**ACTION:** Correction, Announcement of Meetings, and Extension of Comment Period.**SUMMARY:** EPA is correcting minor errors in the preamble and regulatory language of its proposed rule to streamline EPA's water methods approval program, which appeared in the **Federal Register** on March 28, 1997 (62 FR 14976).

EPA also announces two public meetings on the proposed rule and extends the comment period from March 28, 1997 to August 1, 1997.

**DATES:** EPA will conduct two public meetings on streamlining EPA's water methods approval programs. The first of these meetings will be held on Thursday, July 17, 1997, in Chicago, Illinois, from 9:00 a.m. to 12:30 p.m. The second of the two meetings will be held on August 1, 1997, in Dallas, Texas, from 9:00 a.m. to 1:00 p.m. Registration for the meetings will begin at 8:00 a.m. Public comments regarding the streamlining proposed rule will be accepted until August 1, 1997.**ADDRESSES:** Send written comments to the Streamlining Methods Docket Clerk, Ben J. Honaker, Water Docket (MC-4101), USEPA, 401 M Street SW, Washington, DC 20460. The July 17, 1997, meeting will be held at the Hotel Inter-Continental Chicago located at 505 North Michigan Avenue, Chicago, Illinois. The August 1, 1997, meeting will be held at the Wyndham Anatole Hotel-Dallas located at 2201 Stemmons Freeway, Dallas, Texas.**FOR FURTHER INFORMATION CONTACT:** Questions concerning this comment can be directed to Marion Thompson by phone at (202)260-7117 or by facsimile at (202)260-7185.**SUPPLEMENTARY INFORMATION:****Background**

On March 28, 1997, EPA proposed an initiative to streamline its water

methods approval program (62 FR 14976) (Streamlining Initiative). The purpose of the Streamlining Initiative is to expand method flexibility and expedite the method approval process for wastewater and drinking water methods approved at 40 Code of Federal Regulations (CFR) parts 136 and 141. This initiative would support a performance-based approach to environmental measurements under the Clean Water Act and Safe Drinking Water Act through use of quality control criteria in EPA-designated reference methods as the baseline standards of method performance. The initiative would encourage introduction of innovative technologies and involvement of stakeholders in the method development process by expediting Agency processes when external organizations develop and submit for approval new analytical methods. The goal of streamlining is to facilitate early introduction of new and innovative technologies that may reduce costs, overcome analytical difficulties, improve laboratory safety, and enhance data quality, while reducing the regulatory burden imposed by prescriptive methods.

The Streamlining Initiative was first outlined in a notice in 60 FR 47325 (September 12, 1995). Between September 1995 and July 1996, EPA held four public meetings to gather input on the Streamlining Initiative. The suggestions from these meetings were used in refining the Streamlining Initiative prior to its proposal. The Streamlining Initiative includes the following elements: standardized quality control tests in all methods, designation of reference methods that contain QC acceptance criteria for all standard QC tests, increased flexibility to modify reference methods without seeking prior EPA approval provided that the applicant demonstrates method equivalency, a tiered strategy for validating methods based on their intended use, a standard method format, suggested standard data elements for reporting, an amended process for non-EPA organizations to submit new methods for approval, and more rapid approval procedures.

**Extension of Comment Period**

EPA is extending the time for receipt of comments until August 1, 1997 to accommodate the two public meetings announced in this notice. Verbal comments will be accepted at these two public meetings only. All other comments must be written.

All comments received by August 1, 1997 and submitted in accordance with these instructions and the instructions

in the Notice of Proposed Rulemaking will be entered into the public record and considered by EPA before promulgation of the final rule.

**Corrections to Proposed Rule Tables**

This document corrects three tables that appeared in the Identification of Test Procedures section of the proposed rule. Several of the values in the "Recovery," "Precision," "Spiking Conc.," "IPR Recovery-Low," "IPR Recovery-High," "OPR Recovery-Low," "OPR Recovery-High," "MS/MSD Recovery-Low," "MS/MSD Recovery-High," "ML Value," and "ML Calc" columns of Table 1F that appears on page 15011 of the proposed rule are incorrect. Several of the values in the "Recovery," "Precision," "Spiking Conc.," "IPR Recovery-Low," "IPR Recovery-High," "OPR Recovery-Low," "OPR Recovery-High," "MS/MSD Recovery-Low," and "MS/MSD Recovery-High" columns of the table titled, "Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)," that appears on page 15046 of the proposed rule also are incorrect. This notice provides end notes to Table 1F that appears on page 15011 of the proposed rule, and the table titled, "Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)," that appears on page 15046 of the proposed rule. These end notes, which were inadvertently omitted in the proposed rule, clarify the source of the quality control (QC) criteria that appear in these tables.

Entries 8 through 11 were inadvertently omitted from the version of Table 141.40(n)(11) that appears on page 15049 of the proposed rule.

**Meeting Arrangements**

Arrangements for the public meetings on the streamlining proposed rule are being coordinated by DynCorp, Inc. For information on registration, contact Cindy Simbanin, 300 N. Lee Street, Suite 500, Alexandria, VA 22314. Phone: 703/519-1386; facsimile: 703/684-0610.

Hotel reservations for the meeting on July 17, 1997, may be made by contacting the Hotel Inter-Continental Chicago at 312/944-4100. The hotel address is 505 North Michigan Avenue, Chicago, Illinois 60611. When making reservations, specify that you are affiliated with the "EPA PFPR Workshop" (the EPA Pesticide Formulating, Packaging and Repackaging Workshop). Hotel reservations for the meeting on August 1, 1997, may be made by contacting the Wyndham Anatole Hotel-Dallas at 214/748-1200. The hotel address is 2201

Stemmons Freeway, Dallas, Texas 75207. Guest rates are \$84.00, including tax. Reservations must be made by June 30, 1997. When making reservations, you must specify that you are affiliated with "NELAC" (the National Environmental Laboratory Accreditation Committee) to qualify for the quoted rate. Accommodations are limited for both meetings, so please make your reservations early.

#### **Agenda Topics**

The purpose of the public meetings in Chicago and Dallas is to present and discuss EPA's proposed approach to streamlining its water methods approval program. Each meeting will consist of a brief overview of the Streamlining

Initiative, followed by comments and questions.

The following topics will be addressed at the public meetings:

- Increasing flexibility to modify approved methods to facilitate use of innovative technologies.
- Designating reference methods that contain QC acceptance criteria to support determination of method equivalency when method modifications are used.
- Tiered strategy for validating new methods and method modifications based on intended use of the method.
- Streamlining the method proposal and promulgation process in order to take advantage of emerging analytical technologies in a timely manner.

Dated: June 20, 1997.

**Robert Perciasepe,**

*Assistant Administrator for Water.*

The following corrections are made in FRL-5800-2, Guidelines Establishing Test Procedures for the Analysis of Pollutants and National Primary Drinking Water Regulations; Flexibility in Existing Test Procedures and Streamlined Proposal of New Test Procedures, which was published in the **Federal Register** on March 28, 1997 (62 FR 14976).

1. On page 15011, Table 1F is corrected to read as follows:

BILLING CODE 6560-50-P

[illegible]

Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB

No Analyte	Data			Specifications											
	Reference	Prec-	Source	CAL	CAL	Spike	IPR		OPR		MS/MSD		MDL	ML	Calc
	Metho	Recover	Labs			conc	Low	High	Low	High	Low	High			
	d	y		points	lin										
" - Hydride	206.3	98.38	8.19	Single	3114 B	200 ug/L	54.0	142.0	24.6	49.0	148.0	49.0	148.0	30.0	2.0 ug/L Range
" - Furnace	206.2	98.63	15.98	Multi	Apx D	100 ug/L	66.0	131.0	32.0	63.0	134.0	63.0	134.0	32.0	5.0 ug/L Range
" - ICP	200.7	92.17	14.79	Multi	Apx C	100 ug/L	62.0	122.0	30.0	59.0	125.0	59.0	125.0	30.0	8 ug/L 20 ug/L 3.18 x MDL
" - Color (SDDC)	206.4	100.00	13.80	Multi	MCAW	40 ug/L	72.0	128.0	28.0	69.0	131.0	69.0	131.0	28.0	10 ug/L Method
					W										
7. Barium - Flame	208.1	103.50	8.63	Single	MCAW	1 mg/L	57.0	150.0	25.9	51.0	156.0	51.0	156.0	32.0	1.0 mg/L Range
					W										
" - Furnace	208.2	142.14	31.10	Multi	Apx D	100 ug/L	79.0	205.0	63.0	73.0	211.0	73.0	211.0	63.0	10 ug/L Range
" - ICP	200.7	77.30	20.97	Multi	Apx C	100 ug/L	35.0	120.0	42.0	31.0	124.0	31.0	124.0	42.0	1 ug/L 2 ug/L 3.18 x MDL
" - DCP	---														
8. Beryllium - Flame	210.1	98.33	4.27	Single	MCAW	50 ug/L	75.0	121.0	12.8	72.0	124.0	72.0	124.0	16.0	50 ug/L Range
					W										
" - Furnace	210.2	106.66	21.76	Multi	Apx D	100 ug/L	63.0	151.0	44.0	58.0	155.0	58.0	155.0	44.0	1.0 ug/L Range
" - ICP	200.7	96.34	2.31	Multi	Apx C	100 ug/L	91.0	101.0	4.7	91.0	102.0	91.0	102.0	4.7	0.3 ug/L 1.0 ug/L 3.18 x MDL
" - DCP	---														
" - Color	---														
9. BOD	405.1		24.10	Multi	MCAW	100 mg/L			49.0					49.0	N/A
					W										
10. Boron - Color	212.3	100.00	22.80	Multi	MCAW	240 ug/L	54.0	146.0	46.0	49.0	151.0	49.0	151.0	46.0	100 ug/L Range
					W										
" - ICP	200.7	97.07	25.60	Multi	Apx C	100 ug/L	45.0	149.0	52.0	40.0	154.0	40.0	154.0	52.0	3 ug/L 10 ug/L 3.18 x MDL
" - DCP	---														
11. Bromide	320.1	93.75	7.17	Single	MCAW	5 mg/L	55.0	132.0	21.5	50.0	137.0	50.0	137.0	26.0	2 mg/L Range
					W										
12. Cadmium - Flame	213.1	94.87	15.88	Multi	Apx D	100 ug/L	63.0	127.0	32.0	59.0	130.0	59.0	130.0	32.0	50 ug/L Range

[illegible]

**Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB**

No	Analyte	Data				Specifications														ML	Calc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Reference Metho	Recovery	Precision	Labs	Source	CAL	CAL points	Spike conc	IPR				OPR				MS/MSD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Table IF - Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB

No Analyte	Data			Specifications											
	Reference Metho	Recovery	Precision	Source	CAL	CAL points	Spike conc	IPR		Prec-ision		Recovery		MS/MSD	
	d	y						Low	High	Low	High	Low	High	Low	High
23. Cyanide - Distill	---														
Cyanide - Titr	---														
Cyanide - Spectro	335.2	85.00	11.07	Single MCAW	3	10 %	250 ug/L	26.0	144.0	33.2	18.0	152.0	18.0	152.0	40.0
				W											
Cyanide - Auto	335.3	100.00	10.00	No Default	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0
				data											
CATC - Titr	335.1	100.00	10.00	No Default	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0
				data											
CATC - Spectro	335.1	100.00	10.00	No Default	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	140.0	36.0
				data											
25. Fluoride - Distill	---														
Fluoride - Elec/man	340.2	98.82	3.53	Multi MCAW	3	10 %	1.0 mg/L	91.0	106.0	7.1	91.0	107.0	91.0	107.0	7.1
				W											
Fluoride - Elec/auto	---														
Fluoride - SPADNS	340.1	97.59	10.72	Multi MCAW	3	10 %	1.0 mg/L	76.0	120.0	22.0	74.0	122.0	74.0	122.0	22.0
				W											
Fluoride - Auto	340.3	89.00	12.00	Single MCAW	3	10 %	150 ug/L	25.0	153.0	36.0	17.0	161.0	17.0	161.0	44.0
				W											
26. Gold - Flame	231.1	100.00	10.00	No Default	3	10 %	1.0 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0
				data											
Gold - Furnace	231.2	100.00	10.00	No Default	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0
				data											
Gold - DCP	---														

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Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB

No Analyte	Data			Specifications														
	Reference	Prec-	Source	CAL	CAL	Spike conc	IPR		Prec-		OPR		MS/MSD		MDL	ML Value	ML Calc	
	Metho	Recover					ision	ision	Low	High	Low	High	Recovery	Recovery				
	d	y					points	lin	Low	High	Low	High	Low	High				Low
27. Hardness -	130.1	89.00	7.89	Single	MCAW	3	10 %	50 mg/L	47.0	131.0	23.7	41.0	137.0	41.0	137.0	29.0	10 mg/L	Range
Color/aut					W													
Hardness -	130.2	99.81	4.87	Multi	MCAW	3	10 %	100 mg/L	90.0	110.0	19.0	89.0	111.0	89.0	111.0	19.0	30 mg/L	Data
Tit/EDTA					W													
28. pH - Electrode	150.1	N/A	1.30	Multi	MCAW	2	—	N/A		2.6						2.6	N/A	
pH - Auto	—				W													
29. Iridium - Flame	235.1	100.00	10.00	No	Default	3	10 %	100 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	20 mg/L	Range
Iridium - Furnace	235.2	100.00	10.00	No	Default	3	10 %	200 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	100 ug/L	Range
30. Iron - Flame	236.1	99.62	6.24	Multi	ApX D	3	10 %	800 ug/L	87.0	113.0	34.0	85.0	114.0	85.0	114.0	34.0	300 ug/L	Range
Iron - Furnace	236.2	144.71	36.03	Multi	ApX D	5	25 %	100 ug/L	72.0	217.0	73.0	65.0	224.0	65.0	224.0	73.0	5 ug/L	Range
Iron - ICP	200.7	99.44	10.16	Multi	ApX C	3	10 %	500 ug/L	79.0	120.0	37.0	77.0	122.0	77.0	122.0	37.0	30 ug/L	100 ug/L 3.18 x MDL
Iron - DCP	—																	
Iron - Color	—																	
31. TKN - Digest	351.3	101.03	25.76	Multi	MCAW	5	25 %	2 mg/L	49.0	153.0	52.0	44.0	158.0	44.0	158.0	52.0	50 ug/L	Range
TKN - Titr	351.3	101.03	25.76	Multi	MCAW	5	25 %	2 mg/L	49.0	153.0	52.0	44.0	158.0	44.0	158.0	52.0	50 ug/L	Range
TKN - Nessler	351.3	101.03	25.76	Multi	MCAW	5	25 %	2 mg/L	49.0	153.0	52.0	44.0	158.0	44.0	158.0	52.0	50 ug/L	Range
					W													



## Specifications

Data			Specifications																			
No	Analyte	Reference	Precision	Source	IPR				Precision				OPR				MS/MSD				ML	Calc
		Metho	Recovery		ision	Lab	CAL	CAL	Spike conc	Recovery	High	Low	High	Low	High	Low	High	RPD	MDL	Value		
		d	y		points	lin																
35.	Manganese - Persulf Manganese - Periodic	--																				
	Mercury - CV/Man	245.1	92.90	29.40 Multi	MCAW	5	25 %	4 ug/L	34.0	152.0	59.0	28.0	158.0	28.0	158.0	59.0		0.2 ug/L	DL			
	Mercury - CV/Auto	245.2	102.00	2.00 Single	MCAW	3	10 %	10 ug/L	91.4	112.6	6.0	90	114	90	114	7.2		0.2 ug/L	DL			
36.	Molybdenum - Flame	246.1	97.00	2.33 Single	MCAW	3	10 %	300 ug/L	84.0	110.0	7.0	83.0	111.0	83.0	111.0	8.4		300 ug/L	Data			
	Molybdenum - Furnace	246.2	100.00	10.00 No data	MCAW	3	10 %	10 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0		3 ug/L	Range			
	Molybdenum - ICP	200.7	96.92	7.78 Multi	Apx C	3	10 %	100 ug/L	81.0	113.0	16.0	79.0	115.0	79.0	115.0	16.0		4 ug/L	3.18 x MDL			
37.	Nickel - Flame	249.1	96.67	2.00 Single	MCAW	3	10 %	1 ug/L	86.0	108.0	6.0	84.0	109.0	84.0	109.0	7.2		0.2 ug/L	Data			
	Nickel - Furnace	249.2	90.37	26.65 Multi	Apx D	5	25 %	100 ug/L	37.0	144.0	54.0	31.0	149.0	31.0	149.0	54.0		5 ug/L	Range			
	Nickel - ICP	200.7	95.48	10.44 Multi	Apx C	3	10 %	100 ug/L	74.0	117.0	21.0	72.0	119.0	72.0	119.0	21.0		5 ug/L	3.18 x MDL			
	Nickel - DCP	--																				
38.	Nickel - Color	--																				
	Nitrate	352.1	104.12	22.69 Multi	MCAW	5	25 %	1 mg/L	58.0	150.0	46.0	54.0	155.0	54.0	155.0	46.0		0.1 mg/L	Range			



Data						Specifications															
No Analyte	Reference Metho	d	y	Precision	Source	CAL points	CAL lin	Spike conc	IPR Recovery		Precision		Pre-Recovery		OPR Recovery		MS/MSD Recovery		MDL	ML Value	ML Calc
									Low	High	Low	High	Low	High	Low	High	Low	High			
Osmium - Furnace	252.2	100.00	10.00	No	Default	3	10 %	250 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	50 ug/L	Range			
46. DO - Winkler	360.2	100.00	1.00	Single	MCAW data	3	10 %	1 mg/L	94.7	105.3	3.0	94	106	94	106	3.6	50 ug/L	Range			
DO - Electrode	360.1	100.00	1.00	Single	MCAW W	3	10 %	1 mg/L	94.7	105.3	3.0	94	106	94	106	3.6	50 ug/L	Range			
47. Palladium - Flame	253.1	100.00	10.00	No	Default	3	10 %	1 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	500 ug/L	Range			
Palladium - Furnace	253.2	100.00	10.00	No	Default	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	20 ug/L	Range			
Palladium - DCP	---				data																
48. Phenol - Color/Man	420.1	100.00	10.31	Multi	MCAW	3	10 %	300 ug/L	79.0	121.0	21.0	77.0	123.0	77.0	123.0	21.0	5 ug/L	Method			
Phenol - Color/Auto	420.2	98.00	1.12	Single	MCAW W	3	10 %	1 mg/L	92.0	104.0	3.4	92.0	105.0	92.0	105.0	4.1	2 ug/L	Range			
49. Phosphorus - GC	---				W																
50. Phosphorus - Asc/Man	365.2	103.09	30.00	Multi	MCAW	5	25 %	300 ug/L	43.0	164.0	60.0	37.0	170.0	37.0	170.0	60.0	10 ug/L	Range			
Phosphorus - Asc/Man	365.3	99.00	22.00	Multi	MCAW W	5	25 %	300 ug/L	55.0	143.0	44.0	50.0	148.0	50.0	148.0	44.0	10 ug/L	Range			
Phosphorus - Asc/Auto	365.1	87.20	22.00	Multi	MCAW W	5	25 %	300 ug/L	43.0	132.0	45.0	38.0	136.0	38.0	136.0	45.0	10 ug/L	Range			



[illegible]

Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB

Data				Specifications													
No Analyte	Reference Metho	Precision	Source	CAL	Spike conc	IPR Recovery Low	IPR Recovery High	Precision	OPR Recovery Low	OPR Recovery High	MS/MSD Recovery Low	MS/MSD Recovery High	RPD	MDL	ML Value	ML Calc	
	d	y		points	lin												
<hr/>																	
Sodium - FPD				3	10 %	5 mg/L	82.0	114.0	16.0	81.0	115.0	81.0	115.0	16.0	No data		
64. Specific conductance	120.1	97.98	7.55 Multi	MCAW													
W																	
65. Sulfate - Color/Auto	375.1	99.00	1.80 Single	MCAW	3	10 %	100 mg/L	89.0	109.0	5.4	88.0	110.0	88.0	110.0	6.5	10 mg/L Range	
W																	
Sulfate - Grav	375.3	102.00	1.45 Single	MCAW	3	10 %	100 mg/L	94.0	110.0	4.4	93.0	111.0	93.0	111.0	5.3	10 ug/L Range	
W																	
Sulfate - Turbid	375.4	96.99	7.15 Multi	MCAW	3	10 %	100 mg/L	82.0	112.0	15.0	81.0	113.0	81.0	113.0	15.0	1 mg/L DL	
W																	
66. Sulfide - Turbid	376.1	100.00	10.00 No	Default	3	10 %	10 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	1 mg/L DL	
data																	
Sulfide - Color	376.2	100.00	10.00 No	MCAW	3	10 %	10 mg/L	64.0	136.0	36.0	60.0	140.0	60.0	140.0	36.0	No data	
data																	
67. Sulfite - Turbid	377.1	100.00	10.00 No	Default	3	10 %	10 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	3 mg/L DL	
data																	
68. Surfactants	425.1	101.36	9.13 Multi	MCAW	3	10 %	3 mg/L	83.0	120.0	19.0	81.0	122.0	81.0	122.0	19.0	25 ug/L Range	
W																	
69. Temperature	170.1	---	---													N/A	
70. Thallium - Flame	279.1	100.00	3.00 Single	MCAW	3	10 %	600 ug/L	84.1	115.9	9.0	82	118	82	118	11.0	600 ug/L Data	
W																	
Thallium - Furnace	279.2	87.10	11.79 Multi	Apex D	5	25 %	100 ug/L	63.0	111.0	24.0	61.0	114.0	61.0	114.0	24.0	5 ug/L Range	
Thallium - ICP	200.7	82.90	28.34 Multi	Apex C	5	25 %	1 mg/L	26.0	140.0	57.0	20.0	146.0	20.0	146.0	57.0	20 ug/L 50 ug/L 3.18 x MDL	



Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB

No Analyte	Data				Specifications														ML Calc	
	Reference Metho	Precision	Recovery	Source	CAL	CAL points	Spike conc	IPR		Prec		OPR		MS/MSD		RPD	MDL	ML Value		
								Recovery	Low	High	Recovery	Low	High	Recovery	Low					High
71. Tin - Flame	282.1	96.00	6.25	Single MCAW	3	10 %	4 mg/L	62.0	130.0	18.8	58.0	134.0	58.0	134.0	23.0	10 mg/L	Range			
Tin - Furnace	282.2	100.00	10.00	No Default W	3	10 %	10 mg/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	20 ug/L	Range			
Tin - ICP	200.7	100.00	10.00	No Default data	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	7 ug/L	3.18 x MDL			
72. Titanium - Flame	283.1	97.00	3.50	Single MCAW	3	10 %	2 mg/L	78.0	116.0	10.5	76.0	118.0	76.0	118.0	13.0	2 mg/L	Data			
Titanium - Furnace	283.2	100.00	10.00	No Default W	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	50 ug/L	Range			
Titanium - ICP	200.7	100.00	10.00	No Default data	3	10 %	100 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	1 ug/L	Range			
73. Turbidity	180.1	100.00	2.31	Single MCAW	3	10 %	25 NTU	87.0	113.0	6.9	86.0	114.0	86.0	114.0	8.4	0.05	Est			
74. Vanadium - Flame	286.1	100.00	5.00	Single MCAW	3	10 %	2 mg/L	73.5	126.5	15.0	70	130	70	130	18.0	2 mg/L	Range			
Vanadium - Furnace	286.2	85.11	32.80	Multi Apx D W	5	25 %	100 ug/L	19.0	151.0	66.0	12.0	158.0	12.0	158.0	66.0	10 ug/L	Range			
Vanadium - ICP	200.7	94.15	7.88	Multi Apx C	3	10 %	100 ug/L	78.0	110.0	16.0	76.0	112.0	76.0	112.0	16.0	3 ug/L	3.18 x MDL			
Vanadium - DCP	--																			
Vanadium - Color	--																			
75. Zinc - Flame	289.1	99.93	18.60	Multi Apx D	3	10 %	100 mg/L	62.0	138.0	38.0	59.0	141.0	59.0	141.0	38.0	50 ug/L	Range			
Zinc - Furnace	289.2	168.59	67.06	Multi Apx D	7	25 %	100 ug/L	34.0	303.0	135.0	21.0	317.0	21.0	317.0	140.0	0.2 ug/L	Range			

**Table IF- Standardized QC and QC Acceptance Criteria for Methods in 40 CFR Part 136, Table IB**

[illegible]

**Table 1F Note:**

The QC acceptance criteria given in Table 1F were developed from data published in the following sources. For Method 200.7, promulgated at 40 CFR Part 136, Appendix C, QC acceptance criteria were developed using the regression equations at the end of the method. The concentration given in the Spike Conc column is the concentration at which the QC acceptance criteria were calculated. For calculating the precision criterion, the overall standard deviation (S) was used (not the single-analyst standard deviation (SR)). For the remaining 200-series metals methods, QC acceptance criteria were developed from the regression equations in 40 CFR Part 136, Appendix D, where available; otherwise, from performance data published at the end of each method in Methods for Chemical Analysis of Water and Wastes (MCAWW; EPA 600/4-79-020; NTIS PB-123677). For methods other than Method 200.7 and the 200-series metals methods, data published at the end of each method in MCAWW were used, if available; otherwise default QC acceptance criteria, as described below, were used.

The databases used to develop regression equations for Method 200.7 and the 200-series metals methods were not readily

available. Therefore, QC acceptance criteria were calculated using the procedures given in the Streamlining Guide. Where interlaboratory data were available, these data were used and the QC limits were calculated as follows:

IPR lower recovery limit = average  $- 2 \times$  interlab sd

IPR upper recovery limit = average  $+ 2 \times$  interlab sd

IPR precision limit =  $2 \times$  sd

OPR and MS/MSD lower limit = average recovery  $- 2.2 \times$  interlab sd

OPR and MS/MSD upper limit = average recovery  $+ 2.2 \times$  interlab sd

Where interlaboratory data were not available but single-laboratory data were available, the single-laboratory data were used and the QC limits were calculated as follows:

IPR lower recovery limit = average  $- 5.3 \times$  interlab sd

IPR upper recovery limit = average  $+ 5.3 \times$  interlab sd

IPR precision limit =  $3.0 \times$  sd

OPR/MS/MSD lower recovery limit = average  $- 6.0 \times$  interlab sd

OPR/MS/MSD upper recovery limit = average  $+ 6.0 \times$  interlab sd

The multipliers include interlaboratory/single laboratory allowances and are explained in the Streamlining Guide.

Where neither interlaboratory nor single-laboratory data were available, default values of 100 percent recovery and 10 percent RSD were used and the QC limits were calculated assuming single laboratory data. This resulted in the following default values:

IPR lower recovery limit: 47%

IPR upper recovery limit: 153%

IPR precision limit: 30% RSD

OPR/MS/MSD lower recovery limit: 40%

OPR/MS/MSD upper recovery limit: 160%

Minimum levels were set to the level listed in the method (ML, low end of the range, sensitivity, or other level, as noted) or, if an MDL was available, were calculated by multiplying the MDL by 3.18 and rounding to the number nearest to 1, 2, or  $5 \times 10^n$ , where n is an integer.

2. On page 15046, the table titled, "Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)" is corrected to read as follows:

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Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)

Data				Specifications																	
No.	Analyte	Reference	Method	Recovery	Precision	Labs	Source	CAL	MCL	Spike	IPR		Prec-Recovery		OPR		MS/MSD		ML	ML	Calc
											Recovery	Low	High	Precision	Low	High	Y	Low			
1.	Alkalinity - Titr/Man	--	--	--	--	--	--	Point Lin	(ug/L)	conc	Low	High	Precision	Low	High	RPD	MDL				
2.	Alkalinity - Titr/Auto	--	--	--	--	--	--	3	10 %	6.0	6 ug/L	82.0	115.0	17.0	81.0	117.0	17.0	0.4 ug/L	1 ug/L	3.18 x MDL	
	Antimony - Furnace	--	--	--	--	--	--	3	10 %	6.0	20 ug/L	80.56	110.2	8.4	78.6	112.2	11.0	0.8 ug/L	2 ug/L	3.18 x MDL	
	Antimony - Hydride	--	--	--	--	--	--	3	10 %	6.0	50										
3.	Antimony - ICP/MS	200.8	98.8	8.067	Multi	Tbl 12		3	10 %	50	200	71.0	126.0	28.0	68.0	129.0	28.0	53 ug/L	200	3.18 x MDL	
	Antimony - STGFAA	200.9	95.4	2.8	Single	Tbl IE		3	10 %	50	50 ug/L	86.0	115.0	14.0	85.0	116.0	14.0	1.4 ug/L	5 ug/L	3.18 x MDL	
	Arsenic - Furnace	--	--	--	--	--	--	3	10 %	50	10 ug/L	35.0	142.0	30.0	28.0	149.0	28.0	0.5 ug/L	2 ug/L	3.18 x MDL	
4.	Arsenic - Hydride	--	--	--	--	--	--	3	10 %	50											
	Arsenic - ICP	200.7	98.27	13.59	Multi	Apex C		3	10 %	50	200	71.0	126.0	28.0	68.0	129.0	28.0	53 ug/L	200	3.18 x MDL	
	Arsenic - ICP/MS	200.8	100.44	6.9	Multi	Tbl 12		3	10 %	50	50 ug/L	86.0	115.0	14.0	85.0	116.0	14.0	1.4 ug/L	5 ug/L	3.18 x MDL	
5.	Arsenic - STGFAA	200.9	88.4	10	Single	Tbl IE		3	10 %	50	10 ug/L	35.0	142.0	30.0	28.0	149.0	28.0	0.5 ug/L	2 ug/L	3.18 x MDL	
	Asbestos - TEM	100.1																			
	Asbestos - TEM	100.2																			
6.	Barium - Flame	--	--	--	--	--	--														
	Barium - Furnace	--	--	--	--	--	--														
	Barium - ICP	200.7	76.88	18.47	Multi	Apex C		3	10 %	2000	1 mg/L	39.0	114.0	37.0	36.0	118.0	37.0	2 ug/L	5 ug/L	3.18 x MDL	
7.	Barium - ICP/MS	200.8	96.31	4.55	Multi	Tbl 12		3	10 %	2000	1 mg/L	87.0	106.0	9.1	86.0	107.0	9.1	0.8 ug/L	2.0 ug/L	3.18 x MDL	
	Beryllium - Flame	--	--	--	--	--	--														
	Beryllium - ICP	200.7	97.54	25.11	Multi	Apex C		3	10 %	4.0	4 ug/L	47.0	148.0	51.0	42.0	153.0	51.0	0.3 ug/L	1 ug/L	3.18 x MDL	
8.	Beryllium - ICP/MS	200.8	110.50	12.70	Multi	Tbl 12		3	10 %	4.0	4 ug/L	85.0	136.0	26.0	82.0	139.0	26.0	0.3 ug/L	1 ug/L	3.18 x MDL	
	Beryllium - STGFAA	200.9	106	9.4	Single	Tbl IE		3	10 %	4.0	2.5 ug/L	56.0	156.0	28.2	49.0	163.0	34.0	0.02 ug/L	0.05	3.18 x MDL	

Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)

Data					Specifications														
No.	Analyte	Reference	Method	Precision	Labs	Source	CAL	MCL	Spike	IPR	Recovery	Precision	Recovery	MS/MSD	ML	ML			
							Point Lin	(ug/L)	conc	Low	High	Low	High	RPD	Value	Calc			
7. Cadmium - Furnace																			
	Cadmium - ICP	200.7	100.07	8.15	Multi	Apex C	3	10 %	5.0	50 ug/L	83.0	117.0	17.0	82.0	118.0	17.0	4 ug/L	10 ug/L	3.18 x MDL
	Cadmium - ICP/MS	200.8	100.5	16.1	Multi	Tbl 12	3	10 %	5.0	5 ug/L	68.0	133.0	33.0	65.0	136.0	33.0	0.5 ug/L	2 ug/L	3.18 x MDL
	Cadmium - STGFAA	200.9	105.2	6.3	Single	Tbl IE	3	10 %	5.0	0.5 ug/L	71.0	139.0	18.9	67.0	143.0	23.0	0.05 ug/L	0.2 ug/L	3.18 x MDL
8. Calcium - Flame																			
	Calcium - ICP	200.7	89.22	22.38	Multi	Apex C	3	10 %	---	100	44.0	134.0	45.0	39.0	139.0	45.0	10 ug/L	20 ug/L	3.18 x MDL
9. Chromium - Titration																			
	Chromium - Furnace	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Chromium - ICP	200.7	98.54	9.39	Multi	Apex C	3	10 %	100	100	79.0	118.0	19.0	77.0	120.0	19.0	7 ug/L	20 ug/L	3.18 x MDL
	Chromium - ICP/MS	200.8	100.45	3.69	Multi	Tbl 12	3	10 %	100	100	93.0	108.0	7.4	92.0	109.0	7.4	0.9 ug/L	2 ug/L	3.18 x MDL
	Chromium - STGFAA	200.9	105.7	3.1	Single	Tbl IE	3	10 %	100	2.5 ug/L	89.0	123.0	9.3	87.0	125.0	12.0	0.1 ug/L	0.2 ug/L	3.18 x MDL
10. Conductivity																			
	Copper - Flame	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Copper - Furnace																			
	Copper - ICP	200.7	92.94	4.71	Multi	Apex C	3	10 %	1000	1 mg/L	83.0	103.0	9.5	82.0	104.0	9.5	6 ug/L	20 ug/L	3.18 x MDL
	Copper - ICP/MS	200.8	97.56	6.39	Multi	Tbl 12	3	10 %	1000	1 mg/L	84.0	111.0	13.0	83.0	112.0	13.0	0.09 ug/L	0.2 ug/L	3.18 x MDL
	Copper - STGFAA	200.9	111.5	10	Single	Tbl IE	3	10 %	1000	10 ug/L	58.0	165.0	30.0	51.0	172.0	36.0	0.7 ug/L	2 ug/L	3.18 x MDL
12. Cyanide - CAC																			
	Cyanide - Spectro/Man	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Cyanide - Spectro/Man	335.4	100	10	No	Default	3	10 %	200	200	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0	5 ug/L
	Cyanide - Spectro/Man	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)

No. Analyte	Data			Prec- ision	Labs	Source	Specifications											
	Reference	Method	Recovery				CAL	MCL	Spike	IPR	Prec- Recover		Prec- Recover		MS/MSD		ML	ML
							Point Lin	(ug/L)	conc	Low	High	ision	Low	High	Low	High	Value	Calc
Cyanide - ISE																		
13. Fluoride - Elec/man	---	---	---	---	---	---	200	2000	---	---	---	---	---	---	---	---	---	---
Fluoride - Elec/auto	---	---	---	---	---	---	2000	2000	---	---	---	---	---	---	---	---	---	---
Fluoride - SPADNS	---	---	---	---	---	---	2000	2000	---	---	---	---	---	---	---	---	---	---
Fluoride - Auto/Aliz	---	---	---	---	---	---	2000	2000	---	---	---	---	---	---	---	---	---	---
Fluoride - IC	300.0	87.7	5	Single	MCAW	W	3	10 %	2000	2 mg/L	61.0	115.0	15.0	57.0	118.0	57.0	118.0	18.0
																	20 ug/L	3.18 x MDL
14. pH - Electrode	150.1	---	---	---	---	---	6.5-8.5	---	---	---	---	---	---	---	---	---	---	---
pH - Auto	150.2	---	---	---	---	---	6.5-8.5	---	---	---	---	---	---	---	---	---	---	---
15. Lead - Furnace	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead - ICP/MS	200.8	100.20	12.10	Multi	Tbl 12	---	3	10 %	---	10 ug/L	76.0	125.0	25.0	73.0	127.0	73.0	127.0	25.0
Lead - STGFAA	200.9	101.80	4.00	Single	Tbl IE	---	3	10 %	---	10 ug/L	80.0	123.0	12.0	77.0	126.0	77.0	126.0	15.0
Mercury - CV/Man	245.1	100.34	43.82	Multi	MCAW	W	3	10 %	2.0	2 ug/L	12.0	188.0	88.0	3.0	197.0	3.0	197.0	88.0
																	0.2 ug/L	Range
Mercury - CV/Auto	245.2	102	4.5	Single	MCAW	W	3	10 %	2.0	2 ug/L	78.0	126.0	13.5	75.0	129.0	75.0	129.0	17.0
																	0.2 ug/L	Range
Mercury - ICP/MS	200.8	100	10	No	Default	---	3	10 %	2.0	2 ug/L	47.0	153.0	30.0	40.0	160.0	40.0	160.0	36.0
																	No data	
17. Nickel - Flame																		
Nickel - Furnace	---	---	---	---	---	---	100	---	---	---	---	---	---	---	---	---	---	---
Nickel - ICP	200.7	95.48	10.44	Multi	Apex C	---	3	10 %	100	100	74.0	117.0	21.0	72.0	119.0	72.0	119.0	21.0
																	50 ug/L	3.18 x MDL
Nickel - ICP/MS	200.8	95.11	5.16	Multi	Tbl 12	---	3	10 %	100	100	84.0	106.0	11.0	83.0	107.0	83.0	107.0	11.0
																	2 ug/L	3.18 x MDL
Nickel - STGFAA	200.9	103.8	4.3	Single	Tbl IE	---	3	10 %	100	20 ug/L	81.0	127.0	12.9	78.0	130.0	78.0	130.0	16.0
Nitrate - IC	300.0	100.7	5	Single	MCAW	W	3	10 %	10000	10 mg/L	74.0	128.0	15.0	70.0	131.0	70.0	131.0	18.0
																	50 ug/L	3.18 x MDL

Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)																	
Data				Specifications													
No.	Analyte	Reference	Precision	Recovery	Labs	Source	CAL	MCL	Spike	IPR	Recovery	Precision	Recovery	MS/MSD	ML	ML	
		Method	Recovery	Y			Point Lin	(ug/L)	conc	Low	High	Low	High	Y	Value	Calc	
							\$										
19.	Nitrate - Cd/Auto	353.2	97.31	7.10	Multi	MCAW	3	10 %	10000	2.5	83.0	112.0	15.0	81.0	113.0	15.0	50 ug/L Range
	Nitrate - ISE	---				W											
	Nitrite - IC	300.0	97.7	5	Single	MCAW	3	10 %	1000	100	71.0	125.0	15.0	67.0	128.0	18.0	4 ug/L
	Nitrite - Cd/Auto	353.2	97.31	7.10	Multi	MCAW	3	10 %	1000	2.5	83.0	112.0	15.0	81.0	113.0	15.0	50 ug/L Range
20.	Nitrite - Spec/Auto	---				W											
	Nitrite - Spec/Auto	---															
	O-phosphate - IC	300.0	100.4	3.8	Single	MCAW	3	10 %	---	500	80.0	121.0	11.4	77.0	124.0	14.0	61 ug/L
	O-phosphate - Asc/Auto	385.1	87.2	22	Multi	MCAW	3	10 %	---	300	43.0	132.0	45.0	38.0	136.0	44.0	200 ug/L
21.	O-phosphate - Asc/Auto	---				W											10 ug/L Range
	O-phosphate - Asc/Sing	---															
	O-phosphate - Phos/Mo	---															
	O-phosphate - Auto/seg	---															
22.	O-phosphate - Auto/Dis	---															
	Selenium - Furnace	---															
	Selenium - Hydride	---															
	Selenium - ICP/MS	200.8	102.48	9.8	Multi	Tbl 12	3	10 %	50	50 ug/L	82.0	123.0	20.0	80.0	125.0	20.0	7.9 ug/L
23.	Selenium - STGFAA	200.9	88.9	10	Single	Tbl 1E	3	10 %	50	25 ug/L	35.0	142.0	30.0	28.0	149.0	36.0	0.6 ug/L

Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)

Data					Specifications												
No.	Analyte	Reference	Prec-	Labs	Source	CAL	MCL	Spike	IPR	Recovery	Prec-	Recover	OPR	MS/MSD	ML	ML	
		Method	Recover	ision	Source	Point Lin	(ug/L)	conc	Low	High	ision	Low	High	Low	High	Value	Calc
		y				s			d			y		d			
22.	Silica - ICP	200.7	53.86	45.38	Multi	Apx C	5	25 %	1 mg/L	d	145.0	91.0	d	154.0	d	154.0	58 ug/L
	Silica - Color	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200	3.18 x MDL
	Silica - Color/Mo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ug/L	
	Blue	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Silica - Molybdosil	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Silica - Heteropoly	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Silica - Auto/Mo react	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
23.	Sodium - Flame	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Sodium - ICP	200.7	99.77	24.27	Multi	Apx C	5	25 %	1 mg/L	51.0	149.0	49.0	46.0	154.0	46.0	154.0	29 ug/L
																100	3.18 x MDL
																ug/L	
24.	Temperature	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
25.	Thallium - ICP/MS	200.8	101.5	14.5	Multi	Tbl 12	3	10 %	2 ug/L	72.0	131.0	29.0	69.0	134.0	69.0	134.0	0.3 ug/L
	Thallium - STGFAA	200.9	95.4	2.8	Single	Tbl 1E	3	10 %	20 ug/L	80.0	111.0	8.4	78.0	113.0	78.0	113.0	0.7 ug/L
																1 ug/L	3.18 x MDL
																2 ug/L	3.18 x MDL



**Note to Table "Standardized QC and QC Acceptance Criteria for Methods in 40 CFR 141.23(k)(1)"**

The QC acceptance criteria given in this table were developed from data published in the following sources. For Method 200.7, incorporated by reference into 40 CFR 141.23(k)(1), QC acceptance criteria were developed using the regression equations in Table 9 at the end of the method and published in Table 4 of Method 200.7 at 40 CFR 136, Appendix C. The concentration given in the Spike Conc column is the concentration at which the QC acceptance criteria were calculated. For calculating the precision criterion, the overall standard deviation (S) was used (not the single-analyst standard deviation (SR)). For the remaining 200-series metals methods, QC acceptance criteria were developed from data in a table either at the end of the method, as referenced in the table, or from performance data published at the end of each method in Methods for Chemical Analysis of Water and Wastes (MCAWW; EPA 600/4-79-020; NTIS PB-123677). For methods other than Method 200.7 and the 200-series metals methods, data published at the end of each method were used, if available; otherwise default QC

acceptance criteria, as described below, were used.

The databases used to develop regression equations for Method 200.7 and the 200-series metals methods were not readily available. Therefore, QC acceptance criteria were calculated using the procedures given in the Streamlining Guide. Where interlaboratory data were available, these data were used and the QC limits were calculated as follows:

IPR lower recovery limit = average  $- 2 \times$  interlab sd

IPR upper recovery limit = average  $+ 2 \times$  interlab sd

IPR precision limit =  $2 \times$  sd

OPR and MS/MSD lower limit = average recovery  $- 2.2 \times$  interlab sd

OPR and MS/MSD upper limit = average recovery  $+ 2.2 \times$  interlab sd

Where interlaboratory data were not available but single-laboratory data were available, the single-laboratory data were used and the QC limits were calculated as follows:

IPR lower recovery limit = average  $- 6.0 \times$  interlab sd

IPR upper recovery limit = average  $+ 6.0 \times$  interlab sd

IPR precision limit =  $3.0 \times$  sd

OPR/MS/MSD lower recovery limit = average  $- 6.0 \times$  interlab sd

OPR/MS/MSD upper recovery limit = average  $+ 6.0 \times$  interlab sd

The multipliers include interlaboratory/single-laboratory allowances and are explained in the Streamlining Guide.

Where neither interlaboratory nor single-laboratory data were available, default values of 100 percent recovery and either 5 or 10 percent RSD were used and the QC limits were calculated assuming single laboratory data. This resulted in the following default values:

IPR lower recovery limit: 47%

IPR upper recovery limit: 153%

IPR precision limit: 30% RSD

OPR/MS/MSD lower recovery limit: 40%

OPR/MS/MSD upper recovery limit: 160%

Minimum levels were set by setting the ML to the low end of the range listed in the method or, if an MDL was available, by multiplying the MDL by 3.18 and rounding to the number nearest to 1, 2, or  $5 \times 10^n$ , where n is an integer.

3. On page 15049, Table 141.40(n)(11) is corrected to read as follows:

TABLE 141.40(N)(11)

Parameter/ Methodology	Reference method	Other approved methods		
		EPA	Standard methods 18th ed. <sup>1</sup>	Other
1. aldicarb HPLC/FI .....	531.1		6610	.....
2. aldicarb sulfone HPLC/FI .....	531.1		6610	.....
3. aldicarb sulfoxide HPLC/FI .....	531.1		6610	.....
4. aldrin GC/ECD .....	508.1	505, 508	.....	.....
GC/MS .....	525.2		.....	.....
5. butachlor GC/MS .....	525.2		.....	.....
GC/NPD .....	507		.....	.....
6. carbaryl HPLC/FI .....	531.1		6610	.....
7. dicamba GC/ECD .....	515.2	515.1	.....	.....
HPLC .....	555		.....	.....
8. dieldrin GC/ECD .....	508.1	505, 508	.....	.....
HPLC .....	525.2		.....	.....
9. 3-hydroxycarbofuran HPLC/FI .....	531.1		6610	.....
10. methomyl HPLC/FI .....	531.1		6610	.....
11. metolachlor GC/ECD .....	508.1		.....	.....
GC/MS .....	525.2		.....	.....
GC/NPD .....	507		.....	.....
12. metribuzin GC/ECD .....	508.1		.....	.....
GC/MS .....	525.2		.....	.....
GC/NPD .....	507		.....	.....
13. propachlor GC/ECD .....	508.1	508	.....	.....
GC/MS .....	525.2		.....	.....

**Note:** The following acronyms are used in this table:

ECD Electron Capture Detector

FI Fluorescence

GC Gas Chromatography  
GC/MS Gas Chromatography/Mass Spectrometry  
HPLC High Performance Liquid Chromatography  
NPD Nitrogen Phosphorous Detector  
UV Ultraviolet Detector

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