

Analytical Methods Approved for Drinking Water Compliance Monitoring of Inorganic Contaminants and Other Inorganic Constituents

Analysis for the following inorganic contaminants and constituents shall be conducted in accordance with the methods in the following table, or their equivalent as determined by EPA. The methods are specified in 40 CFR 141.23 and Appendix A to Subpart C of Part 141. The monitoring requirements are specified in 40 CFR 141.23, 141.41, 141.86 – 141.88, and 141.135.

The CFR is the legal reference for approved methods and takes precedence over this table. The table should accurately reflect the analytical methods information published in 40 CFR 141.

Inorganic Contaminants:

Alkalinity

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1067-92 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	1992		ASTM International
D1067-02 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2002		ASTM International
D1067-06 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2006		ASTM International
D1067-11 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2011		ASTM International
D1067-16 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2016		ASTM International

Office of Water (MS – 4606 M) EPA 815-B-24-002 January 2024

2320 B	Standard Methods	Standard Methods for the Examination of Water and	1992	Standard Methods
		<i>Wastewater,</i> 18 th Edition		
2320 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
2320 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 20 th Edition		
2320 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
2320 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater</i> , 22 nd Edition		
2320 B	Standard	Standard Methods for the	2017	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
2320 B	Standard	Standard Methods for the	2023	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
2320 B-97	Standard	Online version. Approval year is	1997	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
1 1020 05	UC Caalasiaal	approved.	1989	LICCC
I-1030-85	US Geological	In Methods for Determination of	1989	<u>USGS</u>
	Survey	Inorganic Substances in Water and Fluvial Sediments, USGS Series:		
		•		
		Techniques of Water-Resource Investigation Report; edited by		
		Fishman, M.J. and Friedman, L.C.		

Antimony

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3697-92	ASTM International	Standard Test Method for Antimony in Water	1992		ASTM International

D3697-02	ASTM	Standard Test Method for	2002		ASTM International
D3097-02	International	Antimony in Water	2002		<u>ASTM International</u>
D3697-07	ASTM	Standard Test Method for	2007		ASTM International
D3097-07	International	Antimony in Water	2007		ASTW International
D3697-12	ASTM	Standard Test Method for	2012		ASTM International
D3097-12	International	Antimony in Water	2012		ASTW International
D3697-17	ASTM	Standard Test Method for	2017		ASTM International
D3037-17	International	Antimony in Water	2017		ASTW International
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2	LFA	in Drinking Water by Axially	October 2003	LFA/000-N-00/113	<u>EPA/000-N-00/113</u>
4.2		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.8, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
5.4	2171	of Metals in Environmental	Way 1554	217,000,1134,111	ivational Environmental Wethous maex
3.4		Samples, Supplement I			
200.9, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
2.2	2171	of Metals in Environmental	1114 255 1	217,7000,1131,7111	National Environmental Wethous Macx
		Samples, Supplement I			
		Note: Preconcentration may be			
		required for direct analysis of			
		antimony by Method 200.9			
3113 B	Standard	Standard Methods for the	1992		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			
		Note: Preconcentration may be			
		required for direct analysis of			
		antimony by Method 3113 B			
		unless multiple in-furnace			
		depositions are made			
3113 B	Standard	Standard Methods for the	1995		Standard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 19 th Edition			
		Note: Preconcentration may be			
		required for direct analysis of			
		antimony by Method 3113 B			
		unless multiple in-furnace			
		depositions are made			
3113 B	Standard	Standard Methods for the	2005		<u>Standard Methods</u>
	Methods	Examination of Water and			
		Wastewater, 21st Edition			

		Note: Preconcentration may be		
		required for direct analysis of		
		antimony by Method 3113 B		
		unless multiple in-furnace		
		depositions are made		
3113 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
		Note: Preconcentration may be		
		required for direct analysis of		
		antimony by Method 3113 B		
		unless multiple in-furnace		
		depositions are made		
3113 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
		Note: Preconcentration may be		
		required for direct analysis of		
		antimony by Method 3113 B		
		unless multiple in-furnace		
		depositions are made		
3113 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		<u> </u>
		Wastewater, 24 th Edition		
		Note: Preconcentration may be		
		required for direct analysis of		
		antimony by Method 3113 B		
		unless multiple in-furnace		
		depositions are made		
3113 B-99	Standard	Online version. Approval year is	1999	Standard Methods
3113 5 33	Methods Online	designated by the last 2 digits.	1333	<u>Standard Wethods</u>
	Wicthous offinite	Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
		Note: Preconcentration may be		
		required for direct analysis of		
		antimony by Method 3113 B-99		
		unless multiple in-furnace		
		•		
		depositions are made		

3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B-04 unless multiple in-furnace depositions are made	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B-10 unless multiple in-furnace depositions are made	2010	Standard Methods

Arsenic

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
D2972-97 B	ASTM	Standard Test Methods for Arsenic	1997		ASTM International
	International	in Water – Atomic Absorption,			
		Hydride Generation			
D2972-03 B	ASTM	Standard Test Methods for Arsenic	2003		ASTM International
	International	in Water – Atomic Absorption,			
		Hydride Generation			
D2972-08 B	ASTM	Standard Test Methods for Arsenic	2008		ASTM International
	International	in Water – Atomic Absorption,			
		Hydride Generation			

		1			
D2972-15 B	ASTM	Standard Test Methods for Arsenic	2015		<u>ASTM International</u>
	International	in Water – Atomic Absorption,			
		Hydride Generation			
D2972-97 C	ASTM	Standard Test Methods for Arsenic	1997		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D2972-03 C	ASTM	Standard Test Methods for Arsenic	2003		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D2972-08 C	ASTM	Standard Test Methods for Arsenic	2008		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D2972-15 C	ASTM	Standard Test Methods for Arsenic	2015		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2		in Drinking Water by Axially		,	<u>=::,, </u>
		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.8, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
5.4		of Metals in Environmental	,		<u></u>
511		Samples, Supplement I			
		Note: If ultrasonic nebulization is			
		used in determination of arsenic			
		by Method 200.8, the arsenic must			
		be in the pentavalent state to			
		provide uniform response. For			
		direct analysis of arsenic by			
		Method 200.8 using ultrasonic			
		nebulization, samples and			
		· ·			
		standards must contain one mg/L			
200 O D	FDA	sodium hypochlorite.	N4 400.4	EDA/600/D 04/444	Nietienel Englisen werstel Methode in der
200.9, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
2.2		of Metals in Environmental			
		Samples, Supplement I			
		Note: MDLs reported in Methods			
		200.7 and 200.9 were determined			
		using a 2X preconcentration step			
		during sample digestion; MDLs			
		determined by direct analysis (i.e.,			

		no cample direction) will be		
		no sample digestion) will be higher.		
3113 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
3113 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
3113 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
3113 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3113 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3113 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
	- I I	Wastewater, 24 th Edition		
3114 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
2444.0	Charadand	Wastewater, 18 th Edition	1005	Chair danid 8 Anthonia
3114 B	Standard Methods	Standard Methods for the	1995	Standard Methods
	Methous	Examination of Water and Wastewater, 19 th Edition		
3114 B	Standard	Standard Methods for the	2005	Standard Methods
3114 B	Methods	Examination of Water and	2005	<u>Standard Methods</u>
	ivietilous	Wastewater, 21 st Edition		
3114 B	Standard	Standard Methods for the	2012	Standard Methods
3114 0	Methods	Examination of Water and	2012	<u>Standard Metriods</u>
	Wictious	Wastewater, 22 nd Edition		
3114 B	Standard	Standard Methods for the	2017	Standard Methods
022.5	Methods	Examination of Water and	2017	<u>otandara memodo</u>
		Wastewater, 23 rd Edition		
3114 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3113 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		

3113 B-04	Standard Methods Online	regulations or in Appendix A to Subpart C of Part 141 are approved. Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are	2004	Standard Methods
3113 B-10	Standard Methods Online	approved. Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods
3114 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	Standard Methods
3114 B-09	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2009	Standard Methods

Asbestos

Guidance on conducting asbestos analysis is described in Section V of *Technical Notes on Drinking Water Methods* (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (EPA/600/R-94/173).

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
100.1	EPA	Analytical Method for the Determination of Asbestos Fibers in Water	September 1983	EPA/600/4-83-043	National Environmental Methods Index
100.2	EPA	Determination of Asbestos Structures over 10 µm in Length in Drinking Water	June 1994	EPA/600R-94/134	EPA/600R-94/134

Barium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		<u>Standard Methods</u>
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		<u>Standard Methods</u>
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		<u>Standard Methods</u>

3111 D	Standard	Standard Methods for the	2023	Standard Methods
3111 0	Methods	Examination of Water and	2023	<u>Standard Wethous</u>
	ivietilous	Wastewater, 24 th Edition		
3113 B	Standard	Standard Methods for the	1992	Standard Methods
2112 B	Methods	Examination of Water and	1992	<u>Standard Methods</u>
	ivietnous	Wastewater, 18 th Edition		
2442.0	Charada ad		1005	Chandand Markhada
3113 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
3113 B	Standard	Standard Methods for the	2005	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
3113 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3113 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3113 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3120 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
3120 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
31205	Methods	Examination of Water and	2017	Standard Wethous
	ivictious	Wastewater, 23 rd Edition		
		vvastewater, 25 Euition		

3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3111 D-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>

Beryllium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3645-97 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	1997		ASTM International
D3645-03 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D3645-08 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International
D3645-15 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	2015		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e.,	May 1994	EPA/600/R-94/111	National Environmental Methods Index

		1		
		no sample digestion) will be higher.		
3113 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
3113 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
3113 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
3113 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3113 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3113 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3120 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
3120 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3120 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		

3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods

Cadmium

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2		in Drinking Water by Axially			
		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.7, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
4.4		of Metals in Environmental			<u>Index</u>
		Samples, Supplement I			

		Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher. For direct analysis of cadmium by Method 200.7, sample preconcentration using pneumatic nebulization may be required to achieve lower detection limits.			
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		<u>Standard Methods</u>

3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods

Calcium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
				Number	
D511-93 A	ASTM	Standard Test Methods for	1993		ASTM International
	International	Calcium and Magnesium in Water			
		– Complexometric Titration			
D511-03 A	ASTM	Standard Test Methods for	2003		ASTM International
	International	Calcium and Magnesium in Water			
		– Complexometric Titration			
D511-09 A	ASTM	Standard Test Methods for	2009		ASTM International
	International	Calcium and Magnesium in Water			
		– Complexometric Titration			
D511-14 A	ASTM	Standard Test Methods for	2014		ASTM International
	International	Calcium and Magnesium in Water			
		– Complexometric Titration			

D511-93 B	ASTM	Standard Test Methods for	1993		<u>ASTM International</u>
	International	Calcium and Magnesium in Water			
		- Atomic Absorption			
D511-03 B	ASTM	Standard Test Methods for	2003		ASTM International
	International	Calcium and Magnesium in Water			
		– Atomic Absorption			
D511-09 B	ASTM	Standard Test Methods for	2009		ASTM International
	International	Calcium and Magnesium in Water			
		– Atomic Absorption			
D511-14 B	ASTM	Standard Test Methods for	2014		ASTM International
	International	Calcium and Magnesium in Water			
		Atomic Absorption			
D6919-03	ASTM	Standard Test Method for	2003		ASTM International
	International	Determination of Dissolved Alkali			
		and Alkaline Earth Cations and			
		Ammonium in Water and			
		Wastewater by Ion			
		Chromatography			
D6919-09	ASTM	Standard Test Method for	2009		ASTM International
	International	Determination of Dissolved Alkali			
		and Alkaline Earth Cations and			
		Ammonium in Water and			
		Wastewater by Ion			
		Chromatography			
D6919-17	ASTM	Standard Test Method for	2017		ASTM International
	International	Determination of Dissolved Alkali			
		and Alkaline Earth Cations and			
		Ammonium in Water and			
		Wastewater by Ion			
		Chromatography			
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2		in Drinking Water by Axially			
		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.7, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
4.4		of Metals in Environmental			Index
		Samples, Supplement I			index
		Note: MDLs reported in Methods			
		200.7 and 200.9 were determined			
		using a 2X preconcentration step			
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		during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.		
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	<u>Standard Methods</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	<u>Standard Methods</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	<u>Standard Methods</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	<u>Standard Methods</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods

Methods Examination of Water and Wostewater, 24 th Edition	3120 B	Standard	Standard Methods for the	2023	Standard Methods
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Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. 3120 B-99 Standard Methods Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. 3500-Ca B-97 Standard Methods Online Version. Approval year is designated by the last 2 digits. Only online versions cited in the last 2 digits. Only online versions cited in the last 2 digits. Only online versions cited in the	3111 B-99		1 7 7 7	1999	Standard Methods
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Only online versions cited in the				133,	Startage Westings
			regulations or in Appendix A to		

	Subpart C of Part 141 are		
	approved.		

Chromium

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>EPA/600-R-06/115</u>
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

3113 B	Standard	Standard Methods for the	1995	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 19 th Edition			
3113 B	Standard	Standard Methods for the	2005	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 21st Edition			
3113 B	Standard	Standard Methods for the	2012	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
3113 B	Standard	Standard Methods for the	2017	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 23 rd Edition			
3113 B	Standard	Standard Methods for the	2023	Standard Methods	
	Methods	Examination of Water and			
		<i>Wastewater,</i> 24 th Edition			
3120 B	Standard	Standard Methods for the	1992	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			
3120 B	Standard	Standard Methods for the	1995	Standard Methods	
	Methods	Examination of Water and			
		<i>Wastewater,</i> 19 th Edition			
3120 B	Standard	Standard Methods for the	1998	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 20 th Edition			
3120 B	Standard	Standard Methods for the	2005	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 21 st Edition			
3120 B	Standard	Standard Methods for the	2012	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
3120 B	Standard	Standard Methods for the	2017	Standard Methods	
	Methods	Examination of Water and			
		Wastewater, 23 rd Edition			
3120 B	Standard	Standard Methods for the	2023	<u>Standard Methods</u>	
	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
3113 B-99	Standard	Online version. Approval year is	1999	<u>Standard Methods</u>	
	Methods Online	designated by the last 2 digits.			
		Only online versions cited in the			
		regulations or in Appendix A to			

		Subpart C of Part 141 are approved.		
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2004	<u>Standard Methods</u>
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>

Conductivity

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1125-95 A	ASTM International	Standard Test Methods for Electrical Conductivity and Resistivity of Water	1995		ASTM International
D1125-14 A	ASTM International	Standard Test Methods for Electrical Conductivity and Resistivity of Water	2014		ASTM International
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		<u>Standard Methods</u>

2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
2510 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	Standard Methods

Copper

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
D1688-95 A	ASTM	Standard Test Methods for Copper	1995		ASTM International
	International	in Water – Atomic Absorption,			
		Direct			
D1688-02 A	ASTM	Standard Test Methods for Copper	2002		ASTM International
	International	in Water – Atomic Absorption,			
		Direct			
D1688-07 A	ASTM	Standard Test Methods for Copper	2007		ASTM International
	International	in Water – Atomic Absorption,			
		Direct			
D1688-12 A	ASTM	Standard Test Methods for Copper	2012		ASTM International
	International	in Water – Atomic Absorption,			
		Direct			
D1688-17 A	ASTM	Standard Test Methods for Copper	2017		ASTM International
	International	in Water – Atomic Absorption,			
		Direct			

		Ta. 1 1			
D1688-95 C	ASTM	Standard Test Method for Copper	1995		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D1688-02 C	ASTM	Standard Test Method for Copper	2002		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D1688-07 C	ASTM	Standard Test Method for Copper	2007		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D1688-12 C	ASTM	Standard Test Method for Copper	2012		ASTM International
	International	in Water – Atomic Absorption,			
		Graphite Furnace			
D1688-17 C	ASTM	Standard Test Method for Copper	2017		ASTM International
	International	in Water – Atomic Absorption,			<u> </u>
		Graphite Furnace			
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2	2171	in Drinking Water by Axially	000000000000000000000000000000000000000	217,7000 11 00,7113	<u>EI A/ 000 K 00/ 113</u>
7.2		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.7, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
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4.4					<u>Index</u>
		Samples, Supplement I			
		Note: MDLs reported in Methods 200.7 and 200.9 were determined			
		using a 2X preconcentration step			
		during sample digestion; MDLs			
		determined by direct analysis (i.e.,			
		no sample digestion) will be			
		higher.			
200.8, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
5.4		of Metals in Environmental			<u>Index</u>
		Samples, Supplement I			
200.9, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
2.2		of Metals in Environmental			
		Samples, Supplement I			
		Note: MDLs reported in Methods			
		200.7 and 200.9 were determined			
		using a 2X preconcentration step			
		during sample digestion; MDLs			
		determined by direct analysis (i.e.,			

		no sample digestion) will be higher.		
Hach 8026, Rev. 1.2	Hach Company	Spectrophotometric Measurement of Copper in Finished Drinking Water	December 2015	<u>Hach 8026, Rev. 1.2</u>
Hach 10272, Rev. 1.2	Hach Company	Spectrophotometric Measurement of Copper in Finished Drinking Water	December 2015	Hach 10272, Rev. 1.2
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods

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	Methods	Examination of Water and		
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3120 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
	6. 1 1	Wastewater, 18 th Edition	1005	
3120 B	Standard	Standard Methods for the	1995	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3120 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
3111 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3113 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3113 B-04	Standard	Online version. Approval year is	2004	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		

		Subpart C of Part 141 are approved.		
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	<u>Standard Methods</u>
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>

Cyanide

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
ALPKEM	OIA-1677, DW	Available Cyanide by Flow Injection, Ligand Exchange and Amperometry Note: Sulfide levels below those detected using lead acetate paper may produce positive interference. Test samples using a more sensitive sulfide method.	January 2004	EPA-821-R-04-001	EPA-821-R-04-001
D2036-98 A	ASTM International	Standard Test Methods for Cyanides in Water – Total Cyanides after Distillation	1998		ASTM International
D2036-06 A	ASTM International	Standard Test Methods for Cyanides in Water – Total Cyanides after Distillation	2006		ASTM International
D2036-98 B	ASTM International	Standard Test Methods for Cyanides in Water – Cyanides Amenable to Chlorination by Difference	1998		ASTM International
D2036-06 B	ASTM International	Standard Test Methods for Cyanides in Water – Cyanides Amenable to Chlorination by Difference	2006		ASTM International

D6888-04	ASTM International	Standard Test Method for Available Cyanide with Ligand Displacement and Flow Injection Analysis (FIA) Utilizing Gas Separation and Amperometric Detection Note: Sulfide levels below those detected using lead acetate paper may produce positive interference. Test samples using a more sensitive sulfide method.	2004		ASTM International
335.4, Rev. 1.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
ME355.01	H & E Testing Laboratory	Determination of Cyanide in Drinking Water by GC/MS Headspace	May 26, 2009		<u>ME355.01</u>
Kelada-01, Rev. 1.2	Kelada	Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate Note: A 450-W UV lamp may be used in place of the 550-W lamp if it meets the method QC acceptance criteria. Similarly, flow cell configuration and flow conditions may be modified, provided the QC acceptance criteria are met.	August 2001	EPA 821-B-01-009	<u>Kelada</u>
QuikChem 10-204-00- 1-X, Rev. 2.1	Lachat Instruments	Digestion and Distillation of Total Cyanide in Drinking and Wastewaters using MICRO DIST and Determination of Cyanide by Flow Injection Analysis	November 2000		QuikChem 10-204-00-1-X, Rev. 2.1
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>

4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition Note: MgCl ₂ must be included in the distillation	2005	Standard Methods
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition Note: MgCl ₂ must be included in the distillation	2012	Standard Methods
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition Note: MgCl ₂ must be included in the distillation	2017	Standard Methods
4500-CN ⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition Note: MgCl ₂ must be included in the distillation	2023	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods

4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and	2023	Standard Methods
	Methods	Wastewater, 24 th Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
4500-CN⁻ F	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	2012	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	2017	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-CN ⁻ F	Standard	Standard Methods for the	2023	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-CN ⁻ G	Standard	Standard Methods for the	1992	<u>Standard Methods</u>
	Methods	Examination of Water and		
	5	Wastewater, 18 th Edition		
4500-CN ⁻ G	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
4500 001-0	C. I. I.	Wastewater, 19 th Edition	4000	St. L. IMA II. I
4500-CN ⁻ G	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
4500 CN: C	Ctandard	Wastewater, 20 th Edition	2005	Ctondard Methods
4500-CN ⁻ G	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
4500 CN: C	Ctandard	Wastewater, 21st Edition	2012	Chandard Matharda
4500-CN ⁻ G	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater</i> , 22 nd Edition		

4500-CN ⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	<u>Standard Methods</u>
4500-CN ⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4500-CN ⁻ C- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: MgCl ₂ must be included in the distillation	1999	<u>Standard Methods</u>
4500-CN ⁻ E- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
4500-CN ⁻ F- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
4500-CN ⁻ G- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
I-3300-85	US Geological Survey	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C.	1989	<u>USGS</u>

Fluoride

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1179-93 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	1993		ASTM International
D1179-99 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	1999		ASTM International
D1179-04 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	2004		ASTM International
D1179-10 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	2010		ASTM International
D1179-16 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	2016		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D4327-17	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2017		ASTM International
129-71W	Bran + Luebbe	Fluoride in Water and Wastewater	December 1972		Seal Analytical
380-75WE	Bran + Luebbe	Fluoride in Water and Wastewater	February 1976		<u>Seal Analytical</u>
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic	August 2000	EPA 815-R-00-014	National Environmental Methods Index

		Compounds in Drinking Water, Vol.		
Hach 10225, Rev. 2.0	Hach Company	Hach Company SPADNS 2 (Arsenic- free) Fluoride Method 10225 — Spectrophotometric Measurement of Fluoride in Water and Wastewater	January 2011	<u>Hach 10225, Rev. 2.0</u>
Hach 10312, Rev. 1.0	Hach Company	Hach Method 10312 - Spectrophotometric Measurement of Fluoride in Finished Drinking Water Aluminum-Chromeazurol S complex (AL-CAS) Using Planar Reagent-filled Cuvettes	August 2022	Hach 10312, Rev. 1.0
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4500-F ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
4500-F ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods

4500-F⁻ B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-F ⁻ B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
4500-F ⁻ B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-F ⁻ B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-F⁻ B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
4500-F⁻ C	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 18 th Edition		
4500-F⁻ C	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
4500-F ⁻ C	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-F ⁻ C	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
4500-F⁻ C	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-F⁻ C	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-F ⁻ C	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-F ⁻ D	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		

4500-F ⁻ D	Standard	Standard Methods for the	1995	Standard Methods
4500-F D	Methods	Examination of Water and	1995	<u>Standard Methods</u>
	ivietilous	Wastewater, 19 th Edition		
4500-F- D	Standard	Standard Methods for the	1998	Standard Methods
4300 i D	Methods	Examination of Water and	1550	<u>Standard Wethous</u>
	Wictious	Wastewater, 20 th Edition		
4500-F ⁻ D	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		<u> </u>
		Wastewater, 21st Edition		
4500-F- D	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-F- D	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 23 rd Edition		
4500-F- D	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
4500-F- E	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 18 th Edition		
4500-F- E	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
4500-F- E	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-F⁻ E	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
4500 5- 5	6	Wastewater, 21 st Edition	2012	
4500-F ⁻ E	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
4500 5-5	Charadanal	Wastewater, 22 nd Edition	2017	Chair danid Mathaula
4500-F- E	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and Wastewater, 23 rd Edition		
4500-F ⁻ E	Standard	Standard Methods for the	2023	Standard Methods
43UU-F E	Methods	Examination of Water and	2023	<u>Standard Methods</u>
	ivietilous	Wastewater, 24 th Edition		
4110 B-00	Standard	Online version. Approval year is	2000	Standard Methods
4110 D-00	Methods Online	designated by the last 2 digits.	2000	<u>Standard Methods</u>
	IVICTIOUS OFFITTE	designated by the last 2 digits.		

		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
4500-F⁻ B-97	Standard	Online version. Approval year is	1997	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
4500-F- C-97	Standard	Online version. Approval year is	1997	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
4500-F D-97	Standard	Online version. Approval year is	1997	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
4500-F ⁻ E-97	Standard	Online version. Approval year is	1997	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
D6508, Rev.	Waters Corp.	Test Method for Determination of		Waters Corporation
2		Dissolved Inorganic Anions in		
		Aqueous Matrices Using Capillary		
		Ion Electrophoresis and Chromate		
		Electrolyte		

Lead

Met	thod	Organization	Reference Title	Date	EPA Publication	Source of Method
					Number	

D3559-96 D	ASTM	Standard Test Methods for Lead in	1996		<u>ASTM International</u>
	International	Water – Atomic Absorption,			
		Graphite Furnace			
D3559-03 D	ASTM	Standard Test Methods for Lead in	2003		ASTM International
	International	Water – Atomic Absorption,			
		Graphite Furnace			
D3559-08 D	ASTM	Standard Test Methods for Lead in	2008		ASTM International
	International	Water – Atomic Absorption,			
		Graphite Furnace			
D3559-15 D	ASTM	Standard Test Methods for Lead in	2015		ASTM International
	International	Water – Atomic Absorption,			
		Graphite Furnace			
200.5, Rev.	EPA	Determination of Trace Elements	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
4.2		in Drinking Water by Axially		,	<u> </u>
		Viewed Inductively Coupled			
		Plasma – Atomic Emission			
		Spectrometry			
200.8, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
5.4		of Metals in Environmental	Iviay 1334	LI A/000/11-34/111	
3.4		Samples, Supplement I			<u>Index</u>
200.9, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
2.2 2.2	LFA	of Metals in Environmental	Iviay 1994	LPA/000/N-34/111	National Environmental Methods index
2.2		•			
		Samples, Supplement I			
		Note: Preconcentration may be			
		required for direct analysis of lead			
	5.11	by Method 200.9			
Method	Palintest or	Lead in Drinking Water by	August 1999		Method 1001
1001	Hach Company	Differential Pulse Anodic Stripping			
		Voltammetry			
Method	Palintest	Lead in Drinking Water by	May 2020		Method 1001, Rev. 1.1
1001, Rev.		Differential Pulse Anodic Stripping			
1.1		Voltammetry			
3113 B	Standard	Standard Methods for the	1992		Standard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 18 th Edition			
		Note: Preconcentration may be			
		required for direct analysis of lead			
		by Method 3113 B unless multiple			
		in-furnace depositions are made			

3113 B 3113 B	Standard Methods Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods Standard Methods
		Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made		
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	2012	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	2017	Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	2023	Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods

		Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-99 unless multiple in-furnace depositions are made		
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-04 unless multiple in-furnace depositions are made	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-10 unless multiple in-furnace depositions are made	2010	Standard Methods

Magnesium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D511-93 A	ASTM	Standard Test Methods for	1993		ASTM International
	International	Calcium and Magnesium in Water:			
		Complexometric Titration			
D511-03 A	ASTM	Standard Test Methods for	2003		ASTM International
	International	Calcium and Magnesium in Water:			
		Complexometric Titration			
D511-09 A	ASTM	Standard Test Methods for	2009		ASTM International
	International	Calcium and Magnesium in Water:			
		Complexometric Titration			

D511-14 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water:	2014		ASTM International
		Complexometric Titration			
D511-93 B	ASTM	Standard Test Methods for	1993		ASTM International
	International	Calcium and Magnesium in Water: Atomic Absorption Spectrometry			
D511-03 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water:	2003		ASTM International
		Atomic Absorption Spectrometry			
D511-09 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry	2009		ASTM International
D511-14 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry	2014		ASTM International
D6919-03	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography	2003		ASTM International
D6919-09	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography	2009		ASTM International
D6919-17	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography	2017		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
4.4		of Metals in Environmental Samples, Supplement I			<u>Index</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

3111 B	Standard	Standard Methods for the	1995	Standard Methods
3111 6	Methods	Examination of Water and	1993	<u>Standard Wethous</u>
	Methous	Wastewater, 19 th Edition		
3111 B	Standard	Standard Methods for the	2005	Standard Methods
2111 B	Methods	Examination of Water and	2005	<u>Standard Methods</u>
	iviethous	-		
2444.0	61 1 1	Wastewater, 21st Edition	2042	C. I. IAA II. I
3111 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3111 B	Standard	Standard Methods for the	2017	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3111 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3120 B	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
3120 B	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3120 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3500-Mg E	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and	1552	Standard Wethous
	Wictious	Wastewater, 18 th Edition		
		vvastewater, 10 Luition		

3500-Mg E	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and Wastewater, 19 th Edition		
3500-Mg B	Standard	Standard Methods for the	1998	Standard Methods
3300-ivig D	Methods	Examination of Water and	1998	<u>Standard Methods</u>
	Wethous	Wastewater, 20 th Edition		
3500-Mg B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
3500-Mg B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 22 nd Edition		
3500-Mg B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 23 rd Edition		
3500-Mg B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
3111 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3120 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3500-Mg B-	Standard	Online version. Approval year is	1997	Standard Methods
97	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		

Mercury

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	

	4.071.4		1007		
D3223-97	ASTM International	Standard Test Methods for Total Mercury in Water	1997		ASTM International
D3223-02	ASTM	Standard Test Methods for Total	2002		ASTM International
	International	Mercury in Water			·
D3223-12	ASTM	Standard Test Methods for Total	2012		ASTM International
	International	Mercury in Water			
D3223-17	ASTM	Standard Test Methods for Total	2017		ASTM International
	International	Mercury in Water			
200.8, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods
5.4		of Metals in Environmental			<u>Index</u>
		Samples, Supplement I			
245.1, Rev.	EPA	In Methods for the Determination	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3.0		of Metals in Environmental			
		Samples, Supplement I			
245.2	EPA	In Methods for Chemical Analysis	March 1983	EPA/600/4-79/020	National Environmental Methods Index
		of Water and Wastes			
3112 B	Standard	Standard Methods for the	1992		<u>Standard Methods</u>
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			
3112 B	Standard	Standard Methods for the	1995		<u>Standard Methods</u>
	Methods	Examination of Water and			
	- 1 1	Wastewater, 19 th Edition			
3112 B	Standard	Standard Methods for the	2005		<u>Standard Methods</u>
	Methods	Examination of Water and			
3112 B	Standard	Wastewater, 21 st Edition	2012		Chandred Makharda
3112 B	Methods	Standard Methods for the Examination of Water and	2012		Standard Methods
	ivietnous	Wastewater, 22 nd Edition			
3112 B	Standard	Standard Methods for the	2017		Standard Methods
3112 6	Methods	Examination of Water and	2017		<u>Standard Wethous</u>
	Wiethous	Wastewater, 23 rd Edition			
3112 B	Standard	Standard Methods for the	2023		Standard Methods
3112.0	Methods	Examination of Water and	2025		<u>Standard Wethods</u>
		Wastewater, 24 th Edition			
3112 B-99	Standard	Online version. Approval year is	1999		Standard Methods
	Methods Online	designated by the last 2 digits.			
		Only online versions cited in the			
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			

3112 B-09	Standard	Online version. Approval year is	2009	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		

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Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e.,	May 1994	EPA/600/R-94/111	National Environmental Methods Index

	T				
		no sample digestion) will be higher.			
3111 B	Standard	Standard Methods for the	1992	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			
3111 B	Standard	Standard Methods for the	1995	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 19 th Edition			
3111 B	Standard	Standard Methods for the	2005	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 21st Edition			
3111 B	Standard	Standard Methods for the	2012	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
3111 B	Standard	Standard Methods for the	2017	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 23 rd Edition			
3111 B	Standard	Standard Methods for the	2023	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
3113 B	Standard	Standard Methods for the	1992	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			
3113 B	Standard	Standard Methods for the	1995	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 19 th Edition			
3113 B	Standard	Standard Methods for the	2005	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 21st Edition			
3113 B	Standard	Standard Methods for the	2012	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
3113 B	Standard	Standard Methods for the	2017	Standard Met	<u>hods</u>
	Methods	Examination of Water and			
		Wastewater, 23 rd Edition			
3113 B	Standard	Standard Methods for the	2023	Standard Met	hods
	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
3120 B	Standard	Standard Methods for the	1992	Standard Met	hods
	Methods	Examination of Water and			
		Wastewater, 18 th Edition			

2420 D	Standard	Chairman and Marks and four the	1005	Chandend Matheada
3120 B		Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
2422.5	6. 1.1	Wastewater, 19 th Edition	1000	
3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 23 rd Edition		
3120 B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
3111 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3113 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3113 B-04	Standard	Online version. Approval year is	2004	Standard Methods
	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
3113 B-10	Standard	Online version. Approval year is	2010	Standard Methods
,, 	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Tegalations of III Appendix A to		

		Subpart C of Part 141 are approved.		
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>

Nitrate

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3867-90 A	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D3867-90 B	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D4327-17	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2017		ASTM International
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2000		ASTM International
D6508-15	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2015		ASTM International

601	ATI Orion	Standard Method of Test for Nitrate in Drinking Water	July 1994		Thermo Scientific
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol.	August 2000	EPA 815-R-00-014	National Environmental Methods Index
353.2, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
Hach 10206, Rev. 2.0	Hach Company	Hach Company TNTplus [™] 835/836 Nitrate Method 10206 – Spectrophotometric Measurement of Nitrate in Water and Wastewater	January 2011		<u>Hach 10206, Rev. 2.0</u>
NECi Nitrate- Reductase Method, Rev. 2.0	Nitrate Elimination Company, Inc. (NECi)	Method for Nitrate Reductase Nitrate-Nitrogen Analysis of Drinking Water	February 2016		NECi, Rev. 2.0
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		<u>Standard Methods</u>

4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4500-NO ₃ - D	Standard	Standard Methods for the	1992	Standard Methods
4300-NO3 D	Methods	Examination of Water and	1992	<u>Standard Methods</u>
	Methous	Wastewater, 18 th Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	1995	Standard Methods
4300-NO3 D	Methods	Examination of Water and	1555	<u>Standard Wethous</u>
	Wiethous	Wastewater, 19 th Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	1998	Standard Methods
4500-NO3 D	Methods	Examination of Water and	1556	Standard Wethous
	Wicthous	Wastewater, 20 th Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	2005	Standard Methods
4500 1103 2	Methods	Examination of Water and	2003	<u>Standard Wethous</u>
	Wicthous	Wastewater, 21 st Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	2012	Standard Methods
1500 1103 2	Methods	Examination of Water and	2012	<u>standard Wethods</u>
	Weenous	Wastewater, 22 nd Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		<u></u>
		Wastewater, 23 rd Edition		
4500-NO ₃ - D	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-NO ₃ - E	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
4500-NO ₃ - E	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
4500-NO ₃ - E	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 20 th Edition		
4500-NO₃⁻ E	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
4500-NO ₃ - E	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		

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4500-NO₃⁻ E	Standard	Standard Methods for the	2017		Standard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 23 rd Edition			
4500-NO ₃ - E	Standard	Standard Methods for the	2023		Standard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 24 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1992		Standard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 18 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1995		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 19 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1998		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 20 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2005		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 21 st Edition			
4500-NO₃⁻ F	Standard	Standard Methods for the	2012		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2017		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 23 rd Edition			
4500-NO₃⁻ F	Standard	Standard Methods for the	2023		Standard Methods
	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
4110 B-00	Standard	Online version. Approval year is	2000		Standard Methods
	Methods Online	designated by the last 2 digits.			
		Only online versions cited in the			
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
4500-NO ₃ -	Standard	Online version. Approval year is	2000		Standard Methods
D-00	Methods Online	designated by the last 2 digits.			
		Only online versions cited in the			
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
4500-NO ₃ - E-	Standard	Online version. Approval year is	2000		Standard Methods
00	Methods Online	designated by the last 2 digits.			
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		Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.		
4500-NO ₃ - F-	Standard	Online version. Approval year is	2000	Standard Methods
00	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
Systea Easy	Systea Scientific	Systea Easy (1-Reagent) Nitrate	February 4,	Systea Easy (1-Reagent)
(1-Reagent)	LLC	Method	2009	
B-1011	Waters Corp.	Waters Test Method for	August 1987	Waters Corporation
		Determination of Nitrite/Nitrate in		
		Water using Single Column Ion		
		Chromatography		

Nitrite

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3867-90 A	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D3867-90 B	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D4327-17	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2017		ASTM International
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion	2000		ASTM International

		Electrophoresis and Chromate Electrolyte			
D6508-15	ASTM International	Standard Test Method for Determination of Dissolved	2015		ASTM International
		Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte			
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
353.2, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
NECi	Nitrate	Method for Nitrate Reductase	February		<u>NECi, Rev. 2.0</u>
Nitrate- Reductase	Elimination Company, Inc.	Nitrate-Nitrogen Analysis of Drinking Water	2016		
Method,	(NECi)	Drinking Water			
Rev. 2.0	, ,				
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		<u>Standard Methods</u>

4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
4500-NO ₂ - B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4500-NO ₃ - E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992	Standard Methods
4500-NO ₃ - E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
4500-NO ₃ - E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998	Standard Methods
4500-NO ₃ - E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
4500-NO ₃ - E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods

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4500-NO₃⁻ E	Standard	Standard Methods for the	2017	Sta	andard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 23 rd Edition			
4500-NO ₃ - E	Standard	Standard Methods for the	2023	<u>Sta</u>	andard Methods
	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1992	Sta	andard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 18 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1995	<u>Sta</u>	andard Methods
	Methods	Examination of Water and			
		Wastewater, 19 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	1998	Sta	andard Methods
	Methods	Examination of Water and			
		<i>Wastewater,</i> 20 th Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2005	Sta	andard Methods
	Methods	Examination of Water and			
		Wastewater, 21 st Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2012	Sta	andard Methods
	Methods	Examination of Water and			
		Wastewater, 22 nd Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2017	Sta	andard Methods
	Methods	Examination of Water and		_	
		Wastewater, 23 rd Edition			
4500-NO ₃ - F	Standard	Standard Methods for the	2023	Sta	andard Methods
-	Methods	Examination of Water and			
		Wastewater, 24 th Edition			
4110 B-00	Standard	Online version. Approval year is	2000	Sta	andard Methods
	Methods Online	designated by the last 2 digits.			
		Only online versions cited in the			
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
4500-NO ₂ -	Standard	Online version. Approval year is	2000	St:	andard Methods
B-00	Methods Online	designated by the last 2 digits.			
5 00	Wicerious Orinite	Only online versions cited in the			
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
4500-NO ₃ - E-	Standard	Online version. Approval year is	2000	C+c	andard Methods
00 C	Methods Online	designated by the last 2 digits.	2000	310	inuaru ivietiious
00	Methods Offiline	uesignated by the last 2 digits.			

		Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.		
4500-NO ₃ - F-	Standard	Online version. Approval year is	2000	Standard Methods
00	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		
Systea Easy	Systea Scientific	Systea Easy (1-Reagent) Nitrate	February 4,	Systea Easy (1-Reagent)
(1-Reagent)	LLC	Method	2009	
B-1011	Waters Corp.	Waters Test Method for	August 1987	Waters Corporation
		Determination of Nitrite/Nitrate in		
		Water using Single Column Ion		
		Chromatography		

Orthophosphate
Unfiltered, no digestion or hydrolysis

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D4327-17	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2017		ASTM International
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2000		ASTM International

D6508-15	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2015		ASTM International
D515-88 A	ASTM International	Test Methods for Phosphorus in Water	1988		ASTM International
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
365.1, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023		Standard Methods

4500-P E	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and Wastewater, 18 th Edition		
4500-P E	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 19 th Edition		
4500-P E	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-P E	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21 st Edition		
4500-P E	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-P E	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-P E	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-P F	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition	1005	
4500-P F	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
4500 0 5	Ct. I I	Wastewater, 19 th Edition	4000	
4500-P F	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
4500 D 5	Chanaland	Wastewater, 20 th Edition	2005	Chandard Mathada
4500-P F	Standard Methods	Standard Methods for the	2005	Standard Methods
	Methous	Examination of Water and Wastewater, 21 st Edition		
4500-P F	Standard	Standard Methods for the	2012	Standard Methods
4300-F F	Methods	Examination of Water and	2012	<u>Standard Wethous</u>
	Methous	Wastewater, 22 nd Edition		
4500-P F	Standard	Standard Methods for the	2017	Standard Methods
 300-1 1	Methods	Examination of Water and	2017	<u>Standard Wethous</u>
	Methods	Wastewater, 23 rd Edition		
		vvastevvater, 25 Luition		

4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
4110 B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2000	Standard Methods
4500-P E-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>
4500-P F-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods
Thermo Fisher Discrete Analyzer, Rev. 5	Thermo Fisher Scientific	Thermo Fisher Scientific Orthophosphate Discrete Analyzer Method for Drinking Water	2016	Thermo Fisher Orthophosphate Method, Rev. 5.0
I-1601-85	US Geological Survey	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C.	1989	<u>USGS</u>
I-2598-85	US Geological Survey	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C.	1989	<u>USGS</u>
I-2601-90	US Geological Survey	In Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory; Determination	1993	<u>USGS</u>

of Inorganic and Organic		
Constituents in Water and Fluvial		
Sediments, USGS Series: Open-file		
Report; edited by M.J. Fishman		

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Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1293-95	ASTM International	Standard Test Methods for pH of Water	1995		ASTM International
D1293-99	ASTM International	Standard Test Methods for pH of Water	1999		ASTM International
D1293-12	ASTM International	Standard Test Methods for pH of Water	2012		ASTM International
D1293-18	ASTM International	Standard Test Methods for pH of Water	2018		ASTM International
150.1	EPA	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	National Environmental Methods Index
150.2	EPA	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	National Environmental Methods Index
150.3	EPA	Determination of pH in Drinking Water	February 2017	EPA-815-B-17-001	EPA-815-B-17-001
4500-H ⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>
4500-H ⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		<u>Standard Methods</u>
4500-H ⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		<u>Standard Methods</u>
4500-H ⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		<u>Standard Methods</u>
4500-H ⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		Standard Methods

4500-H ⁺ B	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
4500-H ⁺ B-	Standard	Online version. Approval year is	2000	Standard Methods
00	Methods Online	designated by the last 2 digits.		
		Only online versions cited in the		
		regulations or in Appendix A to		
		Subpart C of Part 141 are		
		approved.		

Selenium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3859-98 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	1998		ASTM International
D3859-03 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	2003		ASTM International
D3859-08 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	2008		ASTM International
D3859-15 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	2015		ASTM International
D3859-98 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	1998		ASTM International
D3859-03 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D3859-08 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International
D3859-15 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	2015		ASTM International

200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023		<u>Standard Methods</u>
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		<u>Standard Methods</u>

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3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995	Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	<u>Standard Methods</u>
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	<u>Standard Methods</u>
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2004	Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	<u>Standard Methods</u>
3114 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	<u>Standard Methods</u>
3114 B-09	Standard Methods Online	Online version. Approval year is designated by the last 2 digits.	2009	Standard Methods

Only online versions cited in the	
regulations or in Appendix A to	
Subpart C of Part 141 are	
approved.	

Silica

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D859-94	ASTM International	Standard Test Method for Silica in Water	1994		ASTM International
D859-00	ASTM International	Standard Test Method for Silica in Water	2000		ASTM International
D859-05	ASTM International	Standard Test Method for Silica in Water	2005		ASTM International
D859-10	ASTM International	Standard Test Method for Silica in Water	2010		ASTM International
D859-16	ASTM International	Standard Test Method for Silica in Water	2016		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		<u>Standard Methods</u>

3120 B	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
3120 B	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
3120 B	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
3120 B	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
3120 B	Standard	Standard Methods for the	2023	<u>Standard Methods</u>
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-Si D	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
4500-Si D	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
4500-Si E	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
4500-Si E	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
4500-Si F	Standard	Standard Methods for the	1992	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 18 th Edition		
4500-Si F	Standard	Standard Methods for the	1995	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 19 th Edition		
4500-SiO ₂ C	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-SiO ₂ C	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		

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4500-SiO₂ C	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 22 nd Edition		
4500-SiO ₂ C	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-SiO₂ C	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		<i>Wastewater,</i> 24 th Edition		
4500-SiO ₂ D	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-SiO ₂ D	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
4500-SiO ₂ D	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-SiO ₂ D	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-SiO ₂ D	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
4500-SiO ₂ E	Standard	Standard Methods for the	1998	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 20 th Edition		
4500-SiO ₂ E	Standard	Standard Methods for the	2005	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 21st Edition		
4500-SiO ₂ E	Standard	Standard Methods for the	2012	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 22 nd Edition		
4500-SiO ₂ E	Standard	Standard Methods for the	2017	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 23 rd Edition		
4500-SiO ₂ E	Standard	Standard Methods for the	2023	Standard Methods
	Methods	Examination of Water and		
		Wastewater, 24 th Edition		
3120 B-99	Standard	Online version. Approval year is	1999	Standard Methods
	Methods Online	designated by the last 2 digits.		
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		Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.		
4500-SiO₂ C- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	<u>Standard Methods</u>
4500-SiO₂ D-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	<u>Standard Methods</u>
4500-SiO ₂ E- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1997	<u>Standard Methods</u>
I-1700-85	US Geological Survey	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C.	1989	<u>USGS</u>
I-2700-85	US Geological Survey	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C.	1989	<u>USGS</u>

Sodium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D6919-03	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2003		ASTM International
D6919-09	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2009		ASTM International
D6919-17	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2017		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	EPA/600-R-06/115
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods

3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017	Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	1999	Standard Methods

Temperature

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 23 rd Edition	2017		Standard Methods

2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 24 th Edition	2023	Standard Methods
2550-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2000	Standard Methods
2550-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.	2010	Standard Methods

Thallium

Method	Organization	Reference Title	Date	EPA Publication	Source of Method
				Number	
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	ЕРА	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: Preconcentration may be required for direct analysis of thallium by Method 200.9	May 1994	EPA/600/R-94/111	National Environmental Methods Index