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# ILLINOIS

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## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

## NOTICE OF ADOPTED AMENDMENT

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE A: GENERAL PROVISIONS  
CHAPTER II: ENVIRONMENTAL PROTECTION AGENCYPART 186  
ACCREDITATION OF ENVIRONMENTAL LABORATORIES

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AUTHORITY: Implementing and authorized by Section 1401(1)(D) of the Safe Drinking Water

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Act [42 USC 300f(1)(D)], Subpart C of the National Interim Primary Drinking Water Regulations [40 CFR 141.21 through 141.30], the Clean Water Act [32 USC 1251], the Illinois Environmental Protection Act [415 ILCS 5], and authorized by Section 4(n) and (o) of the Illinois Environmental Protection Act [415 ILCS 5/4(n) and (o)].

SOURCE: Adopted at 22 Ill. Reg. 5546, effective March 4, 1998; amended at 26 Ill. Reg. 12167, effective July 29, 2002; amended at 30 Ill. Reg. 2507, effective February 10, 2006; amended at 34 Ill. Reg. 9064, effective June 24, 2010; amended at 38 Ill. Reg. 18627, effective September 1, 2014; amended at 43 Ill. Reg. 6175, effective July 1, 2019; amended at 46 Ill. Reg. 3152, effective February 8, 2022.

**Section 186.115 Incorporation by Reference**

- a) The Agency incorporates the following documents by reference.
  - 1) The NELAC Institute (TNI) Standard titled Requirements for the National Environmental Laboratory Accreditation Program, consisting of Volume 1, Management and Technical Requirements for Laboratories Performing Environmental Analysis, EL-V1-2016-Rev.2.1; and Volume 2, General Requirements for Accreditation Bodies Accrediting Environmental Laboratories, EL-V2-2016-Rev.2.0, P.O. Box 2439, Weatherford TX 76086, (817)598-1624.
  - 2) "Test Methods for Evaluating Solid Waste, SW846", "Laboratory Manual Physical/Chemical Properties", volumes 1A, 1B and 1C, 3<sup>rd</sup> edition (July 2014), Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, available from the National Technical Information Service (NTIS), (703)605-6000 (available at <https://www.epa.gov/hw-sw846/sw-846-compendium>).

1000 Series: Waste Characteristics and Leaching/Extracting Methods

3000 Series: Inorganic Sample Preparation

3500 Series: Organic Sample Extraction

3600 Series: Organic Extract Cleanup

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5000 Series: Sample Preparation and Introduction for Volatile Organic Compounds

6000 Series: Inorganic Determinative Methods – Inductively Coupled Plasma (ICP) and Other Methods

7000 Series: Inorganic Determinative Methods – Atomic Absorption (AA) and Other Methods

8000 Series: Chromatographic Separation Methods

9000 Series: Miscellaneous Test Methods

- 3) ~~American Public Health Association, 1015 Fifteenth Street NW, Washington DC 20005, (202)777-2742.~~

~~"Standard Methods for the Examination of Water and Wastewater", 18<sup>th</sup> Edition, 1992.~~

~~Method 2330B for the determination of Corrosivity (Langlier Index).~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

~~"Standard Methods for the Examination of Water and Wastewater", 19<sup>th</sup> Edition, 1995.~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

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~~Method 5320B for the determination of TOX-Total Organic Halides by Absorption Pyrolysis Titrimetric Method.~~

~~"Standard Methods for the Examination of Water and Wastewater", 20<sup>th</sup> Edition, 1998.~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

~~"Standard Methods for the Examination of Water and Wastewater", 21<sup>st</sup> Edition, 2005.~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

~~"Standard Methods for the Examination of Water and Wastewater", 22<sup>nd</sup> Edition, 2012.~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

~~"Standard Methods for the Examination of Water and Wastewater", 23<sup>rd</sup> Edition, 2017.~~

~~Method 2340B for the determination of Hardness by Calculation.~~

~~Method 2340C for the determination of Hardness by EDTA Titrimetric Method.~~

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- 34) USEPA, NSCEP. United States Environmental Protection Agency, National Service Center for Environmental Publications, P.O. Box 42419, Cincinnati OH 45242-0419 (available from <http://www.epa.gov/nscep/>).

~~"Methods for the Determination of Inorganic Substances in Environmental Samples", August 1993, EPA 600/R-93-100.~~

~~Method 180.1, "Determination of Turbidity by Nephelometry", Revision 2.0, August 1993.~~

~~"Methods for the Determination of Metals in Environmental Samples, Supplement I", May 1994, EPA 600/R-94-111.~~

~~Method 218.6, "Determination of Dissolved Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluents by Ion Chromatography", Revision 3.3, May 1994.~~

~~"Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1", EPA 815/R-00/014, August 2000.~~

~~Method 314.0, "Determination of Perchlorate in Drinking Water Using Ion Chromatography", Revision 1, November 1999.~~

~~Method 526, "Determination of Selected Semivolatile Organic Compounds in Drinking Water by Solid Phase Extraction and Capillary Column Gas Chromatography/Mass Spectrometry (GC/MS)", Revision 1.0, June 2000.~~

~~Method 528, "April 2000, Determination of Phenols in Drinking Water by Solid Phase Extraction and Capillary Column Gas Chromatography/Mass Spectrometry (GC/MS)", Revision 1.0, April 2000.~~

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~~Method 532, "Determination of Phenylurea Compounds in Drinking Water by Solid Phase Extraction and High Performance Liquid Chromatography with UV Detection", Revision 1.0, June 2000.~~

Method 218.7, "Determination of Hexavalent Chromium in Drinking Water by Ion Chromatography with Post-Column Derivatization and UV – Visible Spectroscopic Detection", Revision 1.0, November 2011, EPA 815-R-11-005.

~~Method 334.0, "Determination of Residual Chlorine in Drinking Water Using an On-line Chlorine Analyzer", Revision 1.0, September 2009, EPA 815-B-09-013.~~

- ~~5) "Application Update 144: Determination of Hexavalent Chromium in Drinking Water Using Ion Chromatography", 2003, Dionex, 1228 Titan Way, P.O. Box 3603 Sunnyvale CA 94088-3603, (408)737-0700 (available from [www.Dionex.com](http://www.Dionex.com)).~~
- ~~6) QuikChem® Method 10-117-07-1-A, Determination of Chloride by Flow Injection Analysis Colorimetry, November 2007, Lachat Instruments, 5600 Lindburgh Drive, Loveland CO 80539, (414)358-4200.~~
- 47) "Manual for the Certification of Laboratories Analyzing Drinking Water", "Criteria and Procedures Quality Assurance", 5<sup>th</sup> edition (EPA 815-R-05-004, January 2005), Office of Water, Office of Ground Water and Drinking Water, Environmental Protection Agency, available from the National Service Center for Environmental Publications (NSCEP), (800) 490-9198 (available at <https://www.epa.gov/dwlabcert/laboratory-certification-manual-drinking-water>).

"Supplement 1 to the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water" (Supplement 1 to EPA 815-R-05-004, 2008), Office of Water, Office of Ground Water and Drinking Water, U.S. Environmental Protection Agency, available from the National Service Center for Environmental Publications (NSCEP), (800) 490-9198 (available at <https://www.epa.gov/dwlabcert/laboratory-certification-manual-drinking-water>).

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- 5) [EPA PFAS Drinking Water Laboratory Methods \(available at www.epa.gov/pfas/epa-pfas-drinking-water-laboratory-methods\)](http://www.epa.gov/pfas/epa-pfas-drinking-water-laboratory-methods).

[Method 533, "Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry," November 2019, EPA 815-B-19-20.](#)

[Method 537.1, "Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry \(LC/MS/MS\)," Revision 2.0, March 2020, EPA 600/R-20/006.](#)

- 6) [Environmental Sampling and Analytical Methods \(ESAM\) Program \(available at https://www.epa.gov/esam/method-546-determination-total-microcystins-and-nodularins-drinking-water-and-ambient-water\)](https://www.epa.gov/esam/method-546-determination-total-microcystins-and-nodularins-drinking-water-and-ambient-water).

[Method 546, "Determination of Total Microcystins and Nodularins in Drinking Water and Ambient Water by Adda Enzyme-Linked Immunosorbent Assay," August 2016, EPA 815-B-16-011.](#)

- 7) [The SW-846 Compendium \(available at https://www.epa.gov/hw-sw846/sw-846-compedium\)](https://www.epa.gov/hw-sw846/sw-846-compedium).

[Method 8327, "Per- and Polyfluoroalkyl Substances \(PFAS\) By Liquid Chromatography/Tandem Mass Spectrometry \(LC/MS/MS\), SW-0846 Update VII, Revision 0, July 2021.](#)

[Method 3512, "Solvent Dilution of Non-Potable Waters," SW-846 Update VII, Revision 0, July 2021.](#)

- b) The Agency incorporates the following Sections of federal regulations by reference:

- 1) 40 CFR 136.3 Table IB, Table IC, Table ID, Table IF, Table IG, Table II ~~(2018)~~ (2020)



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40 CFR 136.4 [\(2020\)](#)~~(2018)~~

40 CFR 136.5 [\(2020\)](#)~~(2018)~~

40 CFR 136.6 [\(2020\)](#)~~(2018)~~

40 CFR 136.7 [\(2020\)](#)~~(2018)~~

40 CFR 136 appendix A [\(2020\)](#)~~(2018)~~

40 CFR 136 appendix B [\(2020\)](#)~~(2018)~~

40 CFR 136 appendix C [\(2020\)](#)~~(2018)~~

40 CFR 136 appendix D [\(2020\)](#)~~(2018)~~

[Clean Water Act Methods Update Rule for the Analysis of Effluent, 86 Fed. Reg. 27226-27260 \(May 19, 2021\) \(updating 40 CFR 136\)](#)

2) 40 CFR 141.23(k) [\(2020\)](#)~~(2018)~~

40 CFR 141.24(e) [\(2020\)](#)~~(2018)~~

40 CFR 141.24(f)(20) [\(2020\)](#)~~(2018)~~

40 CFR 141.27 [\(2020\)](#)~~(2018)~~

40 CFR 141.74 [\(2020\)](#)~~(2018)~~

40 CFR 141.131 [\(2020\)](#)~~(2018)~~

40 CFR 141 subpart C, appendix A [\(2020\)](#)~~(2018)~~

40 CFR 143.4 [\(2020\)](#)~~(2018)~~

[Expedited Approval of Alternative Test Procedures for the Analysis of Contaminants Under the Safe Drinking Water Act: Analysis and Sampling Procedures, 86 Fed. Reg. 28277-28290 \(May 26, 2021\) \(updating 40 CFR 141\)](#)

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c) This Section incorporates no later amendments or editions.

(Source: Amended at 46 Ill. Reg. 3152, effective February 8, 2022)