



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

Steven J. Posavec
Standard Methods Manager
American Water Works Association
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Denver, CO 80235
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sposavec@awwa.org

ATP Case Numbers:
D07-0002
N07-0002

Dear Mr. Posavec:

Per the terms of the Alternate Test Procedure (ATP) program, the Office of Ground Water and Drinking Water's Technical Support Center (OGWDW/TSC) and the Engineering and Analytical Support Branch (EASB) have determined that the methods listed in Table 1 from the 21st edition of Standard Methods are equivalent versions of the corresponding online Standard Methods.

Based on this determination, the methods from the 21st edition listed in Table 1 may be used for compliance monitoring under National Primary Drinking Water Regulations (NPDWRs), National Secondary Drinking Water Regulations (NSDWRs), and the National Pollutant Discharge Elimination System (NPDES).

Table 1

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
9221 A-99	9221 A	X	X
9221 B-99	9221 B	X	X
9221 D-99	9221 D	X	
9222 A-97	9222 A	X	X
9222 B-97	9222 B	X	X
9222 C-97	9222 C	X	X
9223 B-97	9223 B	X	X
2320 B-97	2320 B	X	X
2510 B-97	2510 B	X	X
2550-00	2550	X	X
3111 B-99	3111 B	X	X
3111 D-99	3111 D	X	X
3112 B-99	3112 B	X	X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
3113 B-99	3113 B	X	X
3114 B-97	3114 B	X	X
3120 B-99	3120 B	X	X
3500-Ca B-97	3500-Ca B	X	X
3500-Mg B-97	3500-Mg B	X	X
4110 B-00	4110 B	X	X
4500-CN ⁻ E-99	4500-CN ⁻ E	X	X
4500-CN ⁻ F-99	4500-CN ⁻ F	X	X
4500-CN ⁻ G-99	4500-CN ⁻ G	X	X
4500-F ⁻ B-97	4500-F ⁻ B	X	X
4500-F ⁻ C-97	4500-F ⁻ C	X	X
4500-F ⁻ D-97	4500-F ⁻ D	X	X
4500-F ⁻ E-97	4500-F ⁻ E	X	X
4500-H ⁺ B-00	4500-H ⁺ B	X	X
4500-NO ₂ ⁻ B-00	4500-NO ₂ ⁻ B	X	X
4500-NO ₃ ⁻ D-00	4500-NO ₃ ⁻ D	X	X
4500-NO ₃ ⁻ E-00	4500-NO ₃ ⁻ E	X	X
4500-NO ₃ ⁻ F-00	4500-NO ₃ ⁻ F	X	X
4500-SiO ₂ C-97	4500-SiO ₂ C	X	X
4500-SiO ₂ D-97	4500-SiO ₂ D	X	X
4500-SiO ₂ E-97	4500-SiO ₂ E	X	X
7110 B-00	7110 B	X	X
7110 C-00	7110 C	X	X
7120-97	7120	X	X
7500- ³ H B-00	7500- ³ H B	X	X
7500-Cs B-00	7500-Cs B	X	X
7500-I B-00	7500-I B	X	X
7500-I C-00	7500-I C	X	X
7500-I D-00	7500-I D	X	X
7500-Ra B-01	7500-Ra B	X	X
7500-Ra C-01	7500-Ra C	X	X
7500-Ra D-01	7500-Ra D	X	X
7500-Sr B-01	7500-Sr B	X	X
7500-U B-00	7500-U B	X	X
7500-U C-00	7500-U C	X	X
4500-O ₃ B-97	4500-O ₃ B	X	
2130 B-01	2130 B	X	X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
4500-Cl D-00	4500-Cl D	X	X
4500-Cl E-00	4500-Cl E	X	X
4500-Cl F-00	4500-Cl F	X	X
4500-Cl G-00	4500-Cl G	X	X
4500-Cl H-00	4500-Cl H	X	X
4500-Cl I-00	4500-Cl I	X	X
4500-ClO ₂ C-00	4500-ClO ₂ C	X	X
4500-ClO ₂ E-00	4500-ClO ₂ E	X	X
4500-O ₃ B-97	4500-O ₃ B	X	X
9215 B-00	9215 B	X	X
9221 C-99	9221 C	X	X
9221 E-99	9221 E	X	X
9222 D-97	9222 D	X	X
2120 B-01	2120 B	X	X
2150 B-97	2150 B	X	X
2310 B(4a)-97	2310 B(4a)		X
2340 B-97	2340 B		X
2340 C-97	2340 C		X
2540 B-97	2540 B		X
2540 C-97	2540 C	X	X
2540 D-97	2540 D		X
2540 F-97	2540 F		X
3111 C-99	3111 C		X
3500-Al B-01	3500-Al B		X
3500-As B-97	3500-As B		X
3500-Cr B-01	3500-Cr B		X
3500-Cr C-01	3500-Cr C		X
3500-Cu B-99	3500-Cu B		X
3500-Cu C-99	3500-Cu C		X
3500-Fe B-97	3500-Fe B		X
3500-Pb B-97	3500-Pb B		X
3500-Mn B-99	3500-Mn B		X
3500-K B-97	3500-K B		X
3500-Na B-97	3500-Na B		X
3500-V B-97	3500-V B		X
3500-Zn B-97	3500-Zn B		X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
4500-B B-00	4500-B B		X
4500-CN ⁻ D-99	4500-CN ⁻ D		X
4500-CI B-00	4500-CI B		X
4500-CI C-00	4500-CI C		X
4500-Cl ⁻ B-97	4500-Cl ⁻ B	X	X
4500-Cl ⁻ C-97	4500-Cl ⁻ C		X
4500-Cl ⁻ D-97	4500-Cl ⁻ D	X	X
4500-Cl ⁻ E-97	4500-Cl ⁻ E		X
4500-NH ₃ B-97	4500-NH ₃ B		X
4500-NH ₃ C-97	4500-NH ₃ C		X
4500-NH ₃ D-97	4500-NH ₃ D		X
4500-NH ₃ E-97	4500-NH ₃ E		X
4500-NH ₃ G-97	4500-NH ₃ G		X
4500-NO ₃ ⁻ H-00	4500-NO ₃ ⁻ H		X
4500-N _{org} B-97	4500-N _{org} B		X
4500-N _{org} C-97	4500-N _{org} C		X
4500-O C-01	4500-O C		X
4500-O G-01	4500-O G		X
4500-S ²⁻ D-00	4500-S ²⁻ D		X
4500-S ²⁻ F-00	4500-S ²⁻ F		X
4500-S ²⁻ G-00	4500-S ²⁻ G		X
4500-SO ₃ ²⁻ B-00	4500-SO ₃ ²⁻ B		X
5210 B-01	5210 B		X
5220 C-97	5220 C		X
5220 D-97	5220 D		X
5310 B-00	5310 B	X	X
5310 C-00	5310 C	X	X
5310 D-00	5310 D	X	X
5520 B-01	5520 B		X
5540 C-00	5540 C	X	X
5910 B-00	5910 B	X	
6200 B-97	6200 B		X
6200 C-97	6200 C		X
6251 B-94	6251 B	X	
6410 B-00	6410 B		X
6420 B-00	6420 B		X
9230 B-93	9230 B		X
9230 C-93	9230 C		X



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We appreciate your interest in the development of environmental monitoring methods. If you have any questions regarding the review of these alternate test procedures, please contact Lemuel Walker at walker.lemuel@epa.gov, or 202-566-1077 for wastewater or Steve Wendelken at wendelken.steve@epa.gov or 513-569-7941 for drinking water.

Sincerely,

A handwritten signature in black ink that reads "Lemuel Walker".

Lemuel Walker, Jr.
ATP Coordinator
Engineering and Analysis Division (4303 T)
Engineering and Analytical Support Branch

A handwritten signature in black ink that reads "Steve Wendelken".

Steven C. Wendelken, Ph.D.
ATP Coordinator
Technical Support Center (MS-140)
Office of Ground Water and
Drinking Water

cc:

USEPA Regional Administrators (all Regions)
Quality Assurance Managers (all Regions)
ATP Coordinators (all Regions)
Gregory J. Carroll, USEPA, OGWDW
Danielle Carter, CSC, SCC
TSC Laboratory Certification Team