



a xylem brand

# EPA Approved Methods Available with YSI Instrumentation

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## News Brief NB13

Many YSI instruments comply with EPA approved test methods for the measurement of several parameters in water; therefore, these instruments can be used for water analysis and reporting to programs regulated by the EPA such as The Clean Water Act, The Safe Drinking Water Act and the National Pollutant Discharge Eliminations System (NPDES). The parameters and associated EPA approved test methods to which YSI instruments comply are outlined below. The EPA's approved test methods for wastewater analysis are listed in [USA Federal Register 40 CFR Part 136](#), while methods for drinking water analysis are listed in [USA Federal Register 40 CFR Part 141](#).

YSI instrument measurements comply with the following test methods:

Parameter	Methodology	EPA Approved Method(s) used by YSI <sup>1</sup>	YSI Instrument <sup>3</sup>	Approved for Wastewater Compliance	Approved for Drinking Water Compliance
Ammonia	Gas sensing electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-NH<sub>3</sub> D-1997 or E-1997</li> <li>ASTM Method D1426-08 (B)</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Ammonia ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	No
BOD	Electrochemical dissolved oxygen (DO) sensor	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 5210 B-2001</li> </ul>	<ul style="list-style-type: none"> <li>5000/5100, Pro Plus, Pro20, Pro1020, Pro2030, DO200A</li> </ul>	Yes	No
BOD	Optical DO sensor	<ul style="list-style-type: none"> <li>In-Situ method 1003-8-2009</li> <li>Hach method 10360</li> </ul>	<ul style="list-style-type: none"> <li>MultiLab, ProODO, ProDSS</li> </ul>	Yes	No
Bromide	Ion selective electrode	<ul style="list-style-type: none"> <li>ASTM Method D1246-05</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Bromide ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	No
CBOD	Electrochemical DO sensor	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 5210 B-2001</li> </ul>	<ul style="list-style-type: none"> <li>5000/5100, Pro Plus, Pro20, Pro1020, Pro2030, DO200A</li> </ul>	Yes	No
CBOD	Optical DO sensor	<ul style="list-style-type: none"> <li>In-Situ method 1004-8-2009</li> <li>Hach method 10360</li> </ul>	<ul style="list-style-type: none"> <li>MultiLab, ProODO, ProDSS</li> </ul>	Yes	No

1. YSI instruments may comply with other EPA methods not listed in this table.
2. Standard Methods for the Examination of Water and Wastewater, 18th, 19th, 20th, 21st, and 22nd editions.
3. Not all applicable YSI instruments are listed

Parameter	Methodology	EPA Approved Method(s) used by YSI <sup>1</sup>	YSI Instrument <sup>3</sup>	Approved for Wastewater Compliance	Approved for Drinking Water Compliance
Chloride	Ion selective electrode	<ul style="list-style-type: none"> <li>ASTM Method D512-04 (C)</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Chloride ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	No
Cyanide	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-CN<sup>-</sup> F-1999</li> <li>ASTM Method D2036-09 (A) (Wastewater)</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Cyanide ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	Yes
Dissolved Oxygen	Electrochemical DO sensor	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-O G-2001</li> <li>USGS Method I-1576-78</li> </ul>	<ul style="list-style-type: none"> <li>5000/5100, Pro Plus, Pro20, Pro20i, Pro1020, Pro2030, DO200A</li> </ul>	Yes	No
Dissolved Oxygen	Optical DO sensor	<ul style="list-style-type: none"> <li>ASTM Method D888-09 (C)</li> </ul>	<ul style="list-style-type: none"> <li>MultiLab, ProODO, ProDSS, EXO, FDO, ODO200</li> </ul>	Yes	No
Fluoride	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-F<sup>-</sup> C-1997</li> <li>ASTM Method D1179-04 (B) (Wastewater)</li> <li>ASTM Method D1179-93, 99 B (Drinking water)</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Fluoride ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	Yes
Nitrate	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-NO<sub>3</sub><sup>-</sup> D-2000</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Nitrate ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	Yes
pH	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-H<sup>+</sup> B-2000</li> <li>ASTM Method D1293-99 (A or B)</li> <li>USGS Method I-1586-85 (Wastewater)</li> </ul>	<ul style="list-style-type: none"> <li>All instruments that utilize a pH electrode</li> </ul>	Yes	Yes
Potassium	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 3500-K C-1997</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Potassium ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	No
Specific Conductance	Conductance	<ul style="list-style-type: none"> <li>EPA Method 120.1 (Wastewater)</li> <li>Standard Method<sup>2</sup> 2510 B-1997</li> <li>ASTM Method D1125-95 (99) (A)</li> </ul>	<ul style="list-style-type: none"> <li>All instruments that measure specific conductance</li> </ul>	Yes	Yes
Sulfide	Ion selective electrode	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 4500-S<sup>2-</sup> G-2000</li> <li>ASTM Method D4658-08</li> </ul>	<ul style="list-style-type: none"> <li>TruLine Sulfide ISE with TruLab 1320 or MultiLab 4010-2/3</li> </ul>	Yes	No
Temperature	Thermometric	<ul style="list-style-type: none"> <li>Standard Method<sup>2</sup> 2550 B-2000</li> </ul>	<ul style="list-style-type: none"> <li>All instruments that measure temperature</li> </ul>	Yes	Yes

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