

Appendix D xii. Water Quality Analysis Laboratory Standard Operating Procedures  
 June 4, 2014 SOPs currently used by the State of Maine Health and Environmental Testing Laboratory

Parameter	Parameter subgroup	HETL SOP Name	Method
Nitrogen	TKN	SOP MAINE HETL – ANALYSIS OF TOTAL KJELDAHYL NITROGEN IN WATERS REVISION 15 March 18, 2013	Lachat QuikChem Method 10-107-06-2-H
	NO <sub>3</sub> +NO <sub>2</sub> -N	SOP MAINE HETL – ANALYSIS OF NITRATE+NITRITE NITROGEN, NITRATE NITROGEN, AND NITRITE NITROGEN BY AUTOMATED COLORIMETRY Revision 13 March 12, 2013, Active 10/22/13	Lachat Instruments Inc. QuikChem Method 10-107- 04-1-J, Revised Oct. 14, 1998
	NH <sub>3</sub> -N	SOP MAINE HETL – ANALYSIS OF AMMONIA IN WATER Revision 16 December 11, 2013	Lachat Quick Chem Method 10-107-06-1-J
Phosphorus	Total-P	SOP MAINE HETL – ANALYSIS OF TOTAL PHOSPHORUS Revision 15 January 8, 2013, Active 10/29/2013	Lachat Instruments Inc. QuikChem Method 10-115- 01-1-F
	OPO4-P	SOP MAINE HETL – ANALYSIS OF ORTHO PHOSPHORUS Revision 13 April 2, 2013	Lachat Instruments Inc. QuikChem Method 10-115- 01-1-B
Chlorophyll <i>a</i>	--	SOP MAINE HETL –CHLOROPHYLL A Revision 12 September 30, 2013	Standard Methods 10200H 22nd Edition
Total suspended solids	--	SOP MAINE HETL – ANALYSIS OF TOTAL SUSPENDED SOLIDS Revision 14 September 20, 2013 Active 10/23/13	Standard Methods 2540D (20th ed)

Parameter	Parameter subgroup	HETL SOP Name	Method
Total dissolved solids	--	SOP MAINE HETL – ANALYSIS OF TOTAL DISSOLVED SOLIDS Revision 14 Sept 30, 2013, Active 10/23/13	Standard Methods 2540C (20th ed)
Dissolved organic carbon	--	SOP MAINE HETL-SOP TOC/DOC Revision #11 October 30, 2013 Active 11/01/2013	EPA METHOD 415.3, Standard Methods 5310C (20th ed), and EPA METHOD 9060 (SW-846 THIRD EDITION, SEPTEMBER 1986).
Chloride	--	STANDARD OPERATING PROCEDURE FOR THE ANALYSIS OF DW/NP ANIONS BY ION CHROMATOGRAPHY EPA METHOD 300.0 Revision 12 December 18, 2013	EPA METHOD 300.0
Alkalinity (as CaCO <sub>3</sub> )	--	SOP MAINE HETL – ANALYSIS OF TOTAL AND BICARBONATE ALKALINITIES Revision 14 April 24, 2013, Active 10/23/13	Standard Methods 2320B
True Color	--	SOP MAINE HETL – ANALYSIS OF COLOR IN WATERS Revision 16 April 24, 2013 Active 10/23/13	Lachat QuikChem Method 10-308-00-1-A
Silicon, dissolved silica	--	ANALYSIS OF TRACE METALS IN ENVIRONMENTAL SAMPLES Referencing EPA numbers: SW 846 – 3010A/3050B/6010B Revision 9.0 August 23, 2013 Active 9/11/13	EPA METHOD 200.7