



ENVIRONMENTAL METHODS LIST – UKAS Rev 4

AQ2

Method Detection Limits are calculated using NS30 protocol (WRc UK)

ANALYTE	METHOD DESCRIPTION	METHOD NUMBER	METHOD DETECTION LIMIT	EQUIVALENCE
ALUMINIUM	Pyrocatechol violet [α, α -bis(3,4-dihydroxyphenyl) toluene-2, α -sultone] reaction	UKAS-509-A	0.011 mg Al/L (Range: 0.025 to 1.0 mg Al/L)	UK Blue Book Method
AMMONIA	Salicylate method with hypochlorite and sodium nitroprusside (indophenol blue)	UKAS-500-A	0.02 mg N/L (Range: 0.1 to 1.0 mg N/L)	UK Blue Book Method
		UKAS-501-A	0.16 mg N/L (Range: 2.0 to 10 mg N/L)	
		UKAS-502-A	0.32 mg N/L (Range: 10 to 50 mg N/L)	
AMMONIA	Salicylate method with hypochlorite and sodium nitroprusside (indophenol blue) This is a brackish method.	UKAS-503-A	0.01 mg N/L (Range: 0.025 to 0.5 mg/L)*	UK Blue Book Method
CHLORIDE	Mercuric TPTZ reaction	UKAS-510-A	0.67 mg Cl/L (Range: 10 to 100 mg Cl/L)	UK Blue Book Method
		UKAS-511-A	2.69 mg Cl/L (Range: 50 to 500 mg Cl/L)	
IRON (II)	Acidic 1,10-phenanthroline reaction	UKAS-504-A	0.004 mg Fe(II)/L (Range: 0.04 to 4.0 mg/L)*	UK Blue Book Method
IRON - TOTAL	Reduction of ferric iron followed by acidic 1,10-phenanthroline reaction	UKAS-507-A	0.008 mg Fe/L (Range: 0.04 – 4.0 mg Fe/L)*	UK Blue Book Method
NITRITE	Sulphanilimide reaction in the presence of N-(1-naphthylethylenediamine) dihydrochloride	UKAS-512-A	0.0013 mg N/L (Range: 0.01 to 0.1 mg N/L)	UK Blue Book Method
		UKAS-513-A	0.0032 mg N/L (Range: 0.2 to 2.0 mg N/L)	
NITRATE + NITRITE	Hydrazine reduction followed by sulphanilamide reaction in the presence of N-(1-naphthylethylenediamine) dihydrochloride	UKAS-505-A	0.14 mg N/L (Range: up to 20 mg N/L)	UK Blue Book Method
		UKAS-506-A	0.38 mg N/L (Range: up to 50 mg N/L)	

* Method detection limit calculated using USEPA procedure 40 CFR, Part 136, Appendix B

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ANALYTE	METHOD DESCRIPTION	METHOD NUMBER	METHOD DETECTION LIMIT	EQUIVALENCE
SILICA	Acidic molybdate with reduction (silicomolybdenum blue)	UKAS-514-A	0.002 mg Si/L (Range: 0.025 to 0.5 mg Si/L)*	UK Blue Book Method
SULPHATE	Barium chloride turbidimetric method	UKAS-515-A	2.4 mg SO ₄ /L (Range: 10 to 100 mg SO ₄ /L)	UK Blue Book Method

* Method detection limit calculated using USEPA procedure 40 CFR, Part 136, Appendix B

SEAL Analytical is continually developing methods. Please note that others may exist. If you do not see your chosen method on this list, please consult your SEAL Analytical Technical Support Team