

METHODS OF ANALYSIS

| A/A | PARAMETER | SPECTROQUANT CELL TEST NUM. | MEASURING RANGE | SBLA LABORATORY METHOD | COMMENTS | RECOGNISED OR ACCEPTABLE METHODS |
|-----|-------------------------|-----------------------------|-----------------|--|--|---|
| 1 | Ammonium NH4-N | 14544 | 0.5-16 | Indophenol blue | analogous to EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 | EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 |
| 2 | Ammonium NH4-N | 14558 | 0.2-8 (4) | Indophenol blue | analogous to EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 | EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 |
| 3 | Ammonium NH4-N | 14559 | 4-80 (41) | Indophenol blue | analogous to EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 | EPA 350,1 ; APHA 4500-NH3 D; ISO 7150/1;DIN 38406 E5 |
| 4 | BOD5 | - | - | WTW OxiTop Manometric BOD method | - | DIN 38409T51 and T52 |
| 5 | Boron B | 826 | 0.05-2 | Azomethine H | analogous to DIN 38405 D17 | DIN 38405 D17 |
| 6 | Cadmium Cd | 14834 | 0.025-1 | Cadion derivative | - | APHA 3130 B |
| 7 | Calcium Ca | 14815 | 5-160 | Glyoxalbishydroxyanil | - | APHA 3111 D |
| 8 | Chloride Cl | 14897 | 10-250 | Iron(III)-thiocyanate | analogous to EPA 325.1; APHA 4500-CI E | EPA 325.1; APHA 4500-CI E |
| 9 | CN | - | - | - | - | APHA 4500-CN E |
| 10 | Free,Total Chlorine Cl2 | 14828 | 0.01-7.50 | DPD | analogous to EPA 330.5; APHA 4500-CI G; DIN EN ISO 7393 G4-2 | EPA 330.5; APHA 4500-CI G; DIN EN ISO 7393 G4-2 |
| 11 | Chromium Cr | 14552 | 0.05-2 | Diphenylcarbazine | analogous to APHA 3500-Cr D; DIN 38405 D24 | APHA 3500-Cr D; DIN 38405 D24 |
| 12 | COD | 14540 | 10-150 | Oxidation with chromosulfuric acid, determination as chromate | analogous to EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 | EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 |
| 13 | COD | 14541 | 25-1500 | Oxidation with chromosulfuric acid, determination as chromium(III) | analogous to EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 | EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 |
| 14 | COD | 14691 | 300-3500 | Oxidation with chromosulfuric acid, determination as chromium(III) | analogous to EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 | EPA 410.4; APHA 5220 D; ISO 15705; DIN 38409 H41 and H 44 |
| 15 | Copper Cu | 14553 | 0.05-8 | Cuprizone | - | APHA 3111 B |
| 16 | Cobalt Co | - | - | - | - | APHA 3111 B |
| 17 | Dissolve oxygen DO | - | - | - | - | APHA 4500-O G |
| 18 | Fluoride F | 14557 | 0.1-1.5 | Alizarinkomplexone | analogous to EPA 340.3, APHA 4500 F E | EPA 340.3, APHA 4500 F E |
| 19 | Hazen Colour | - | 0-1000 Hz | Own colouring | analogous to APHA 2120 B | APHA 2120 B |
| 20 | Sulfide S | 14779 | 0.02-1.5 | Dimethyl-p-phenylendiamine | analogous to EPA 376.2; APHA 4500-S D; ISO 10530; DIN 38405 D26 | EPA 376.2; APHA 4500-S D; ISO 10530; DIN 38405 D26 |
| 21 | Iron Fe | 14549 | 0.05-4 | Triazine | - | APHA 3111 B |
| 22 | Lead Pb | 14833 | 0.1-5 | PAR | - | APHA 3111 B |
| 23 | Manganese Mn | 816 | 0.1-5 | Formaloxime | analogous to DIN 38406 E2 | DIN 38406 E2 |

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| 24 | Magnesium Mg | 815 | 5-75 | Phthaleinkomplexone | - | APHA 3111 B |
| 25 | Mercury Hg | - | - | - | - | APHA 3112 B |
| 26 | Nickel Ni | 14554 | 0.1-6 | Dimethylglyoxime | - | APHA 3111 B |
| 27 | Nitrate NO3-N | 14542 | 0.5-18 | Nitrospectral | - | APHA 4110 B |
| 28 | Nitrate NO3-N | 14556 | 0.1-3 | Resorcinol | - | APHA 4110 B |
| 29 | Nitrite NO2-N | 14547 | 0.01-0.7 | Griess' reaction | analogous to EPA 354.1; APHA 4500-NO2 B; DIN EN 26777 D10 | EPA 354.1; APHA 4500-NO2 B; DIN EN 26777 D10 |
| 30 | Oil and Grease | - | - | APHA 5520 B | APHA 5520 B | APHA 5520 B |
| 31 | Phosphate PO4-P | 14543 | 0.05-5 | Phosphormolybdenum blue | analogous to EPA 365.2+3; APHA 4500-P E; ISO 6978/1; DIN EN 1189 D11 | EPA 365.2+3; APHA 4500-P E; ISO 6978/1; DIN EN 1189 D11 |
| 32 | Phenol | 14551 | 0.1-2.5 | MBTH | - | APHA 6420 B |
| 33 | Potassium K | 14562 | 5-50 | Kalignost, turbidimetric | - | APHA 3111 B |
| 34 | Sodium Na | - | - | - | - | APHA 3111 B |
| 35 | Sulfate SO4 | 14548 | 5-250 | Bariumsulfate, turbidimetric | analogous to EPA 375.4; APHA 4500-SO4 E | EPA 375.4; APHA 4500-SO4 E |
| 36 | Surfactants MBAS | 14697 | 0.05-2 | Methylene blue | analogous to EPA 425.1; APHA 5540 C; DIN EN 903 H24 | EPA 425.1; APHA 5540 C; DIN EN 903 H24 |
| 37 | Settled Sludge Volume SV | - | - | APHA 2710 C | APHA 2710 C | APHA 2710 C |
| 38 | Sludge Volume Index SVI | - | - | APHA 2710 D | APHA 2710 D | APHA 2710 D |
| 39 | Suspended Solids SS | - | - | APHA 2540 D | APHA 2540 D | APHA 2540 D |
| 40 | Total Solids TS | - | - | APHA 2540 B | APHA 2540 B | APHA 2540 B |
| 41 | Volatile Solids VS | - | - | APHA 2540 E | APHA 2540 E | APHA 2540 E |
| 42 | Tin Sn | 14622 | 0.1-2.5 | Pyrocatechol violet | - | APHA 3111 B |
| 43 | TOC (Total Organic Carbon) | - | - | - | - | APHA 5310 B |
| 44 | Total-Hardness 'd | 961 | 0.7-30.1 | Phthaleinkomplexone | - | APHA 2340 C |
| 45 | Tot-(K)-N | - | - | - | Kjeldahl Method | APHA 4500-NO3 E |
| 46 | Tot-N | 14537 | 0.5-15 | Koroleff digestion, nitrospectral | analogous to DIN EN ISO 11905-1 H36 | DIN EN ISO 11905-1 H36 |
| 47 | Tot-P | 14543 | 0.05-5 | Phosphormolybdenum blue | analogous to EPA 365.2+3; APHA 4500-P E; ISO 6978/1; DIN EN 1189 D11 | EPA 365.2+3; APHA 4500-P E; ISO 6978/1; DIN EN 1189 D11 |

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| 48 | Turbidity NTU | - | 1-500 NTU | Turbidimetric | analogous to DIN EN ISO 7027 C2 | DIN EN ISO 7027 C2 |
| 49 | Zinc Zn | 14566 | 0.2-5 | PAR | - | APHA 3111 B |
| 50 | Conductivity | - | - | Electrometric method | APHA 2510 B | APHA 2510 B |
| 51 | pH | - | - | Electrometric method | APHA 4500-H B | APHA 4500-H B |
| 52 | Temperature | - | - | Thermometric method | APHA 2550 B | APHA 2550 B |
| 53 | Toxicity | - | - | APHA 8000 | APHA 8000 | APHA 8000 |
| 54 | Activated sludge respiration rate | - | - | ASR method | - | - |
| 55 | Microbiological examination - Intestinal Eggs | - | - | - | - | - |
| 56 | Microbiological examination of the Coliform Group | - | - | - | - | APHA 9221, APHA 9222 |
| 57 | Microbiological examination - Fecal Streptocococcus and Enterocococcus | - | - | - | - | APHA 9230 |
| 58 | Microbiological examination - Pathogenic Bacteria | - | - | - | - | APHA 9260 |
| 59 | Microbiological examination - Enteric Viruses | - | - | - | - | APHA 9510 |
| 60 | Collection and preservation of samples | - | - | - | - | APHA 1060 |