

Table of assigned values Nutrients/Major Ions N145

1st Edition, 01.04.2019

Table of assigned values

| Parameter | Sample | Unit | Assigned value ± U (k=2) | Criteria | Criteria [%] |
|--------------------------------------|--------|--------|--------------------------|----------|--------------|
| Ammonium (as NH ₄) | N145 A | mg/l | 0,0854 ± 0,00237 | 0,0137 | 16 |
| | N145 B | mg/l | 0,0891 ± 0,00373 | 0,0143 | 16 |
| Boron | N145 A | mg/l | 0,0212 ± 0,000599 | 0,00212 | 10 |
| | N145 B | mg/l | 0,0155 ± 0,000684 | 0,00155 | 10 |
| Calcium | N145 A | mg/l | 61 ± 0,622 | 2,15 | 3,5 |
| | N145 B | mg/l | 63,5 ± 0,611 | 2,09 | 3,3 |
| Chloride | N145 A | mg/l | 21,7 ± 0,152 | 0,825 | 3,8 |
| | N145 B | mg/l | 28,2 ± 0,219 | 1,07 | 3,8 |
| DOC (as C) | N145 A | mg/l | 0,58 ± 0,0472 | 0,133 | 23 |
| | N145 B | mg/l | 2,18 ± 0,0583 | 0,21 | 9,6 |
| El. conductivity (25°C) | N145 A | µS/cm | 481 ± 1,57 | 6,25 | 1,3 |
| | N145 B | µS/cm | 498 ± 1,43 | 6,48 | 1,3 |
| Total-P (as PO ₄) | N145 A | mg/l | 0,649 ± 0,0119 | 0,0577 | 8,9 |
| | N145 B | mg/l | 0,137 ± 0,00336 | 0,0122 | 8,9 |
| Total hardness | N145 A | mmol/l | 2,29 ± 0,0172 | 0,0618 | 2,7 |
| | N145 B | mmol/l | 2,2 ± 0,0157 | 0,0595 | 2,7 |
| Total nitrogen | N145 A | mg/l | 7,48 ± 0,238 | 0,628 | 8,4 |
| | N145 B | mg/l | 3,04 ± 0,0951 | 0,252 | 8,3 |
| Hydrogen carbonate | N145 A | mg/l | 157 ± 1,09 | 3,36 | 2,1 |
| | N145 B | mg/l | 217 ± 1,49 | 4,7 | 2,2 |
| Potassium | N145 A | mg/l | 1,18 ± 0,028 | 0,094 | 8 |
| | N145 B | mg/l | 2,43 ± 0,0361 | 0,121 | 5 |
| Magnesium | N145 A | mg/l | 18,2 ± 0,188 | 0,651 | 3,6 |
| | N145 B | mg/l | 14,6 ± 0,152 | 0,523 | 3,6 |
| Sodium | N145 A | mg/l | 6,75 ± 0,0891 | 0,292 | 4,3 |
| | N145 B | mg/l | 17,4 ± 0,211 | 0,715 | 4,1 |
| Nitrate (as NO ₃) | N145 A | mg/l | 32,2 ± 0,249 | 1,58 | 4,9 |
| | N145 B | mg/l | 12,5 ± 0,117 | 0,611 | 4,9 |
| Nitrite (as NO ₂) | N145 A | mg/l | 0,188 ± 0,00184 | 0,00998 | 5,3 |
| | N145 B | mg/l | 0,0631 ± 0,00126 | 0,00423 | 6,7 |
| Orthophosphate (as PO ₄) | N145 A | mg/l | 0,178 ± 0,00355 | 0,0162 | 9,1 |
| | N145 B | mg/l | 0,122 ± 0,00333 | 0,0111 | 9,1 |
| pH-Wert | N145 A | - | 7,85 ± 0,0288 | 0,126 | 1,6 |
| | N145 B | - | 8,13 ± 0,0204 | 0,13 | 1,6 |
| Sulfate (as SO ₄) | N145 A | mg/l | 57,1 ± 0,539 | 1,89 | 3,3 |
| | N145 B | mg/l | 30,8 ± 0,261 | 1,02 | 3,3 |
| Alkalinity Ks 4,3 | N145 A | mmol/l | 2,6 ± 0,0146 | 0,0525 | 2 |
| | N145 B | mmol/l | 3,57 ± 0,0201 | 0,0725 | 2 |

Legend:

| | |
|----------------|--|
| Assigned value | Target value for proficiency assessment of the participants (3 significant digits) |
| U (k=2) | Expanded uncertainty (k=2) of the assigned value (3 significant digits) |
| Criteria | Specified value for the determination of the z-score in the given unit (3 significant digits) |
| Criteria [%] | Specified value for the determination of the z-score in % of the assigned value (3 significant digits) |