

| DATUM DER PROBENAHME | 30.05.1985 | 14.01.1986 | 10.06.1986 | 25.11.1986 | 06.05.1987 | 02.07.1987 | 17.02.1988 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |       |
|----------------------------------|-------|------|------|------|------|------|------|-------|
| Temperatur des Wassers           | °C    | 10.4 | 11.5 | 11.0 | 12.6 | 10.2 | 11.6 | 10.8  |
| Temperatur der Luft              | °C    | 16.0 | 8.0  | 25.0 | 8.0  | 6.0  | 24.0 | - 3.0 |
| Leitfähigkeit (20 °C)            | µS/cm |      |      |      |      |      |      |       |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      |      |      |      |      |       |
| Ergiebigkeit / Pumpmenge         | l/min | 3000 | 3000 | 3000 | 2167 | 3000 | 2830 | 2800  |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                           |  |     |   |   |    |     |  |   |
|---------------------------|--|-----|---|---|----|-----|--|---|
| PC-Agar (20 °C) am 3. Tag |  | 187 | 5 | 1 | 0  | 161 |  | 6 |
| PC-Agar (30 °C) am 3. Tag |  | 243 | 7 | 1 | 14 | 220 |  | 4 |

Fäkalkeime

|                  |        |   |   |   |   |   |  |   |
|------------------|--------|---|---|---|---|---|--|---|
| Escherichia coli | 100 ml | 0 | 0 | 0 | 0 | 0 |  | 0 |
| Enterokokken     | 100 ml | 0 | 0 | 0 | 0 | 0 |  | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 33.4    | 30.3    | 30.1    | 32.0    | 28.3    | 31.4    | 31.5    |
| Karbonathärte                    | °fH  | 28.6    | 25.4    | 26.0    | 27.4    | 24.4    | 27.2    | 27.5    |
| Resthärte                        | °fH  | 4.8     | 4.9     | 4.1     | 4.6     | 3.9     | 4.2     | 4.0     |
| Oxidierbarkeit                   | mg/l | 1.3     | 1.3     | 3.3     | 1.0     | 1.1     | 1.6     | 1.7     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.005   |
| Nitrat                           | mg/l | 14.2    | 12.8    | 14.5    | 12.4    | 9.7     | 15.3    | 10.6    |
| Chlorid                          | mg/l | 25.9    | 25.3    | 24.0    | 25.1    | 22.0    | 26.0    | 23.9    |
| Phosphat (als P)                 | mg/l | < 0.006 | < 0.006 | < 0.006 | 0.006   | < 0.006 | < 0.006 | < 0.006 |
| Sulfat                           | mg/l |         |         |         |         |         |         |         |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |         | < 0.02  |
| Mangan                           | mg/l | < 0.05  | < 0.05  | < 0.02  | < 0.02  | < 0.02  |         | 0.02    |
| Freie Kohlensäure                | mg/l | 33.4    | 34.9    | 30.2    | 35.5    | 36.0    |         | 36.5    |
| Sauerstoff (gelöst)              | mg/l | 5.27    | 7.19    | 6.11    | 5.15    | 6.62    |         | 6.36    |
| Sauerstoffsättigung              | %    | 49.7    | 69.4    | 58.5    | 51.1    | 62.2    |         | 60.6    |
| pH-Wert                          |      | 7.2     | 7.15    | 7.1     | 7.1     | 7.2     | 7.05    | 7.0     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |

| DATUM DER PROBENAHME | 08.12.1988 | 29.05.1989 | 20.11.1990 | 04.04.1991 | 02.09.1992 | 12.05.1993 | 16.11.1994 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 12.5 | 11.2 | 12.7 | 10.8 | 13.3 | 11.2 | 13.0 |
| Temperatur der Luft              | °C    | 2.0  | 16.0 |      | 7.0  | 16.0 |      | 12.0 |
| Leitfähigkeit (20°C)             | µS/cm |      | 502  | 540  | 567  | 538  | 561  | 544  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 2900 | 3000 | 3080 | 185  | 2167 | 1783 | 1750 |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |    |  |  |  |   |   |   |
|--------------------------|----|--|--|--|---|---|---|
| PC-Agar (20°C) am 3. Tag | 21 |  |  |  | 0 | 1 | 0 |
| PC-Agar (30°C) am 3. Tag | 58 |  |  |  | 0 | 1 | 1 |

Fäkalkeime

|                  |        |   |  |  |   |   |   |
|------------------|--------|---|--|--|---|---|---|
| Escherichia coli | 100 ml | 0 |  |  | 0 | 0 | 0 |
| Enterokokken     | 100 ml | 0 |  |  | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 30.4    | 28.2    | 31.3    | 31.8    | 30.5    | 31.9    | 30.6    |
| Karbonathärte                    | °fH  | 26.8    | 25.2    | 27.7    | 28.2    | 26.9    | 28.0    | 27.6    |
| Resthärte                        | °fH  | 3.6     | 3.0     | 3.6     | 3.6     | 3.6     | 3.9     | 3.0     |
| Oxidierbarkeit                   | mg/l | 1.4     | 1.7     | 1.7     | 2.1     | 1.6     | 1.0     | 1.7     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Nitrat                           | mg/l | 9.7     | 8.0     | 9.7     | 12.0    | 10.3    | 11.3    | 10.1    |
| Chlorid                          | mg/l | 20.0    | 18.0    | 15.2    | 19.9    | 16.8    | 17.5    | 15.1    |
| Phosphat (als P)                 | mg/l | < 0.006 | < 0.006 | < 0.006 | < 0.006 | < 0.006 | < 0.006 | < 0.006 |
| Sulfat                           | mg/l |         | 16.5    | 16.5    | 20.0    | 18.9    | 20.9    | 20.1    |
| Eisen                            | mg/l | 0.02    | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Mangan                           | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Freie Kohlensäure                | mg/l | 35.9    | 32.1    | 36.9    | 37.6    | 38.4    | 38.8    | 45.7    |
| Sauerstoff (gelöst)              | mg/l | 5.35    | 4.85    | 4.26    | 5.72    | 4.11    | 5.41    | 4.32    |
| Sauerstoffsättigung              | %    | 53.0    | 46.6    | 42.4    | 54.5    | 41.8    | 52.0    | 43.2    |
| pH-Wert                          |      | 7.15    | 7.1     | 7.0     | 7.1     | 7.1     | 7.1     | 7.1     |

**WEITERE METALLE**

|             |      |       |       |       |       |       |       |
|-------------|------|-------|-------|-------|-------|-------|-------|
| Strontium   | µg/l | 310   | 360   | 340   | 270   | 260   | 270   |
| Zink        | µg/l | < 20  | < 20  | 20    | 40    | < 20  | < 20  |
| Cadmium     | µg/l | 0.9   | 0.8   | 0.8   | 0.7   | 0.6   | 0.5   |
| Quecksilber | µg/l | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Blei        | µg/l | < 2   | < 2   | < 2   | < 2   | < 2   | < 2   |

| DATUM DER PROBENAHME | 09.05.1995 | 25.11.1996 | 29.04.1997 | 08.10.1998 | 10.05.1999 | 08.11.2000 | 17.05.2001 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.6 | 12.8 | 11.4 | 12.6 | 11.0 | 13.5 | 11.1 |
| Temperatur der Luft              | °C    | 15.0 | 4.0  | 10.0 | 10.0 | 17.0 | 8.0  | 16.0 |
| Leitfähigkeit (20 °C)            | µS/cm | 552  | 546  | 561  | 552  | 574  | 538  | 573  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 2200 | 1460 | 1600 | 1600 | 3080 | 2000 |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                           |  |   |   |   |   |    |   |   |
|---------------------------|--|---|---|---|---|----|---|---|
| PC-Agar (20 °C) am 3. Tag |  | 0 | 1 | 0 | 1 | 1  | 0 | 1 |
| PC-Agar (30 °C) am 3. Tag |  | 1 | 2 | 3 | 3 | 10 | 0 | 0 |

Fäkalkeime

|                  |        |   |   |   |   |   |   |   |
|------------------|--------|---|---|---|---|---|---|---|
| Escherichia coli | 100 ml | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterokokken     | 100 ml | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 31.1    | 30.3    | 31.1    | 30.4    | 31.5    | 28.9    | 31.0    |
| Karbonathärte                    | °fH  | 28.4    | 26.8    | 27.2    | 27.5    | 28.3    | 26.6    | 28.3    |
| Resthärte                        | °fH  | 2.7     | 3.5     | 3.9     | 2.9     | 3.2     | 2.3     | 2.7     |
| Oxidierbarkeit                   | mg/l | 1.3     | 1.1     | 1.0     | 1.3     | 1.3     | 1.4     | 1.4     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nitrat                           | mg/l | 11.4    | 10.1    | 10.6    | 9.0     | 11.5    | 8.0     | 8.5     |
| Chlorid                          | mg/l | 15.2    | 15.3    | 17.6    | 16.0    | 20.5    | 17.0    | 18.0    |
| Phosphat (als P)                 | mg/l | < 0.006 | < 0.005 | < 0.005 | 0.004   | < 0.002 | 0.002   | < 0.002 |
| Sulfat                           | mg/l | 20.9    | 20.7    | 21.4    | 19.5    | 20.0    | 17.5    | 18.0    |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Mangan                           | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.01  | < 0.01  | 0.01    | < 0.01  |
| Freie Kohlensäure                | mg/l | 43.0    | 36.1    | 31.4    | 30.0    | 34.0    | 27.0    | 30.0    |
| Sauerstoff (gelöst)              | mg/l | 5.69    | 4.23    | 5.48    | 3.7     | 5.65    | 3.8     | 4.35    |
| Sauerstoffsättigung              | %    | 55.2    | 42.2    | 52.9    | 37.0    | 54.0    | 39.0    | 42.0    |
| pH-Wert                          |      | 7.05    | 7.25    | 7.35    | 7.3     | 7.35    | 7.2     | 7.3     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |

| DATUM DER PROBENAHME                       |        | 28.11.2002 | 20.05.2003 | 15.11.2004 | 02.05.2005 | 07.11.2006 | 07.05.2007 |
|--------------------------------------------|--------|------------|------------|------------|------------|------------|------------|
| <b>PHYSIKALISCHE PARAMETER</b>             |        |            |            |            |            |            |            |
| Temperatur des Wassers                     | °C     | 14.2       | 11.4       | 13.4       | 10.9       | 14.1       | 11.3       |
| Temperatur der Luft                        | °C     | 7.0        | 11.0       | - 1.0      | 18.0       | 1.0        | 14.0       |
| Leitfähigkeit (20°C)                       | µS/cm  | 556        | 543        | 514        | 547        | 571        | 552        |
| Spektr. Absorptionskoeff. 254 nm           | 1/m    |            |            | 1.0        | 1.0        | 1.1        | 1.0        |
| Ergiebigkeit / Pumpmenge                   | l/min  |            |            |            |            |            |            |
| <b>BAKTERIOLOGIE</b>                       |        |            |            |            |            |            |            |
| Aerobe mesophile Keime pro 1 ml            |        |            |            |            |            |            |            |
| PC-Agar (20°C) am 3. Tag                   |        | 36         | 0          | 2          | 1          | 0          | 0          |
| PC-Agar (30°C) am 3. Tag                   |        | 116        | 0          | 0          | 0          | 0          | 4          |
| Fäkalkeime                                 |        |            |            |            |            |            |            |
| Escherichia coli                           | 100 ml | 0          |            | 0          | 0          | 0          | 0          |
| Enterokokken                               | 100 ml | 0          | 0          | 0          | 0          | 0          | 0          |
| <b>CHEMISCHE HAUPT- UND NEBENPARAMETER</b> |        |            |            |            |            |            |            |
| Gesamthärte                                | °fH    | 29.8       | 29.6       | 28.3       | 29.6       | 30.2       | 29.8       |
| Karbonathärte                              | °fH    | 27.5       | 27.0       | 26.1       | 25.8       | 26.5       | 26.7       |
| Resthärte                                  | °fH    | 2.3        | 2.6        | 2.2        | 3.8        | 3.7        | 3.1        |
| Oxidierbarkeit                             | mg/l   | 1.9        | 1.7        | 1.6        |            |            |            |
| Totaler organ. Kohlenstoff (TOC)           | mg/l   |            |            | 0.5        | 0.6        | 0.7        | 0.6        |
| Ammonium                                   | mg/l   | < 0.01     | < 0.01     | < 0.01     | < 0.01     | < 0.01     | < 0.01     |
| Nitrit                                     | mg/l   | < 0.002    | < 0.002    | < 0.002    | < 0.002    | < 0.002    | < 0.002    |
| Nitrat                                     | mg/l   | 8.0        | 7.5        | 6.0        | 8.0        | 8.0        | 7.5        |
| Chlorid                                    | mg/l   | 16.0       | 17.5       | 17.0       | 29.5       | 29.5       | 25.5       |
| Phosphat (als P)                           | mg/l   | < 0.002    | 0.003      | 0.003      | < 0.002    | 0.002      | 0.002      |
| Sulfat                                     | mg/l   | 16.0       | 16.0       | 13.5       | 15.0       | 16.5       | 16.0       |
| Eisen                                      | mg/l   | < 0.01     | < 0.01     | < 0.01     | < 0.01     | 0.01       | < 0.01     |
| Mangan                                     | mg/l   | < 0.01     | < 0.01     | < 0.01     | < 0.01     | < 0.01     | < 0.01     |
| Freie Kohlensäure                          | mg/l   | 28.0       | 28.0       | 23.0       | 17.0       | 27.0       | 31.0       |
| Sauerstoff (gelöst)                        | mg/l   | 4.4        | 4.4        | 4.55       | 6.05       | 3.7        | 3.9        |
| Sauerstoffsättigung                        | %      | 45.0       | 43.0       | 46.0       | 58.0       | 38.0       | 38.0       |
| pH-Wert                                    |        | 7.25       | 7.25       | 7.25       | 7.35       | 7.35       | 7.25       |
| <b>WEITERE METALLE</b>                     |        |            |            |            |            |            |            |
| Strontium                                  | µg/l   |            |            | 300        |            |            |            |
| Zink                                       | µg/l   |            |            | 34         |            |            |            |
| Cadmium                                    | µg/l   |            |            | < 0.2      |            |            |            |
| Quecksilber                                | µg/l   |            |            | < 0.2      |            |            |            |
| Blei                                       | µg/l   |            |            | < 1        |            |            |            |