

| DATUM DER PROBENAHME | 08.02.1964 | 18.04.1989 | 31.10.1990 | 16.04.1991 | 13.10.1992 | 04.02.1993 | 03.10.1994 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |       |      |      |      |      |      |      |
|----------------------------------|-------|-------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 7.8   | 10.2 | 11.2 | 10.6 | 11.2 | 10.4 | 11.8 |
| Temperatur der Luft              | °C    | - 4.5 |      |      |      |      |      | 15.0 |
| Leitfähigkeit (20 °C)            | µS/cm |       | 452  | 449  | 449  | 444  | 453  | 475  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |       |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min |       |      | 30   | 30   |      |      | 15   |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                           |  |   |  |   |   |    |   |
|---------------------------|--|---|--|---|---|----|---|
| PC-Agar (20 °C) am 3. Tag |  | 2 |  | 1 | 5 | 37 | 1 |
| PC-Agar (30 °C) am 3. Tag |  | 8 |  | 2 | 4 | 15 | 2 |

Fäkalkeime

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

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 23.9    | 27.8    | 27.5    | 27.6    | 27.1    | 27.0    | 28.9    |
| Karbonathärte                    | °fH  | 22.3    | 25.8    | 24.8    | 25.1    | 24.4    | 24.0    | 26.0    |
| Resthärte                        | °fH  | 1.6     | 2.0     | 2.7     | 2.5     | 2.7     | 3.0     | 2.9     |
| Oxidierbarkeit                   | mg/l | 1.3     | 0.5     | 1.1     | 1.0     | 0.8     | 1.0     | 0.6     |
| 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 | 4.5     | 8.9     | 7.1     | 7.1     | 7.3     | 7.3     | 9.7     |
| Chlorid                          | mg/l | 2.6     | 6.7     | 5.6     | 6.9     | 6.2     | 5.8     | 8.1     |
| Phosphat (als P)                 | mg/l | < 0.006 | < 0.006 | < 0.006 | < 0.006 |         | < 0.006 | < 0.006 |
| Sulfat                           | mg/l |         | 12.5    | 13.0    | 13.5    | 13.7    | 13.0    | 15.3    |
| Eisen                            | mg/l |         |         |         |         |         |         |         |
| Mangan                           | mg/l |         |         |         |         |         |         |         |
| Freie Kohlensäure                | mg/l |         |         |         |         |         |         |         |
| Sauerstoff (gelöst)              | mg/l |         |         |         |         |         |         |         |
| Sauerstoffsättigung              | %    |         |         |         |         |         |         |         |
| pH-Wert                          |      |         |         |         |         |         |         | 7.6     |

**WEITERE METALLE**

|             |      |       |       |       |       |       |       |
|-------------|------|-------|-------|-------|-------|-------|-------|
| Strontium   | µg/l | 260   | 200   | 200   | 170   | 210   | 220   |
| Zink        | µg/l | < 20  | < 20  | < 20  | < 20  | < 20  | < 20  |
| Cadmium     | µg/l | < 0.1 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 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 | 04.04.1995 | 15.10.1996 | 07.04.1997 | 20.10.1998 | 13.04.1999 | 25.10.2000 | 02.04.2001 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.0 | 11.4 | 10.7 | 11.7 | 10.7 | 11.8 | 11.1 |
| Temperatur der Luft              | °C    |      | 13.0 | 5.0  | 6.0  | 6.0  | 11.0 | 13.0 |
| Leitfähigkeit (20°C)             | µS/cm | 484  | 468  | 468  | 449  | 476  | 467  | 445  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 40   |      | 30   | 30   | 29   | 33   |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |  |   |   |   |   |   |   |   |
|--------------------------|--|---|---|---|---|---|---|---|
| PC-Agar (20°C) am 3. Tag |  | 6 | 2 | 3 | 6 | 3 | 3 | 0 |
| PC-Agar (30°C) am 3. Tag |  | 5 | 0 | 1 | 4 | 1 | 3 | 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  | 29.2    | 27.0    | 27.3    | 26.5    | 28.8    | 27.3    | 28.5    |
| Karbonathärte                    | °fH  | 26.3    | 23.4    | 23.2    | 23.7    | 25.4    | 24.3    | 25.4    |
| Resthärte                        | °fH  | 2.9     | 3.6     | 4.1     | 2.8     | 3.4     | 3.0     | 3.1     |
| Oxidierbarkeit                   | mg/l | 1.3     | 0.8     | 0.5     | 0.6     | 0.6     | 0.6     | 0.6     |
| 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 | 11.3    | 10.2    | 11.8    | 8.0     | 10.5    | 6.5     | 9.5     |
| Chlorid                          | mg/l | 7.6     | 7.2     | 8.1     | 6.5     | 8.0     | 4.0     | 7.5     |
| Phosphat (als P)                 | mg/l | < 0.006 | < 0.005 |         | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Sulfat                           | mg/l | 16.6    | 15.2    | 14.7    | 13.5    | 14.5    | 13.5    | 14.5    |
| Eisen                            | mg/l |         |         |         |         |         |         |         |
| Mangan                           | mg/l |         |         |         |         |         |         |         |
| Freie Kohlensäure                | mg/l |         |         |         |         |         |         |         |
| Sauerstoff (gelöst)              | mg/l |         |         |         |         |         |         |         |
| Sauerstoffsättigung              | %    |         |         |         |         |         |         |         |
| pH-Wert                          |      | 7.2     | 7.2     | 7.65    | 7.45    | 7.2     | 7.3     | 7.4     |

**WEITERE METALLE**

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

| DATUM DER PROBENAHME | 02.10.2002 | 07.04.2003 | 07.10.2004 | 07.04.2005 | 19.10.2006 | 24.04.2007 | 21.10.2008 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.9 | 10.9 | 11.8 | 9.0  | 9.6  | 9.1  | 9.7  |
| Temperatur der Luft              | °C    | 10.0 |      | 17.0 | 13.0 | 11.0 | 15.0 | 16.0 |
| Leitfähigkeit (20°C)             | µS/cm | 483  | 497  | 416  | 437  | 448  | 453  | 445  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      | 0.3  | 0.3  | 0.4  | 0.3  | 0.3  |
| Ergiebigkeit / Pumpmenge         | l/min |      |      |      |      |      |      |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |   |    |   |    |   |   |   |
|--------------------------|---|----|---|----|---|---|---|
| PC-Agar (20°C) am 3. Tag | 6 | 13 | 0 | 12 | 4 | 5 | 4 |
| PC-Agar (30°C) am 3. Tag | 4 | 14 | 1 | 2  | 4 | 9 | 3 |

Fäkalkeime

|                  |        |   |   |   |   |   |   |
|------------------|--------|---|---|---|---|---|---|
| Escherichia coli | 100 ml | 0 |   | 0 | 0 | 0 | 0 |
| Enterokokken     | 100 ml | 1 | 0 | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 27.4    | 28.5    | 26.0    | 27.0    | 27.1    | 26.9    | 27.5    |
| Karbonathärte                    | °fH  | 24.4    | 25.2    | 23.4    | 23.7    | 24.5    | 23.7    | 24.5    |
| Resthärte                        | °fH  | 3.0     | 3.3     | 2.6     | 3.3     | 2.6     | 3.2     | 3.0     |
| Oxidierbarkeit                   | mg/l | 0.8     | 1.0     | 0.5     |         |         |         |         |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         | 0.4     | 0.3     | 0.3     | 0.4     | 0.2     |
| Ammonium                         | mg/l | < 0.01  | < 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 | < 0.002 |
| Nitrat                           | mg/l | 8.0     | 10.0    | 8.0     | 9.0     | 8.0     | 9.0     | 8.5     |
| Chlorid                          | mg/l | 8.0     | 8.5     | 7.0     | 4.5     | 4.5     | 5.0     | 4.0     |
| Phosphat (als P)                 | mg/l | < 0.002 | < 0.002 | < 0.002 | < 0.002 | 0.003   | < 0.002 | 0.003   |
| Sulfat                           | mg/l | 14.0    | 13.5    | 13.5    | 17.0    | 16.0    | 17.0    | 15.5    |
| Eisen                            | mg/l |         |         |         |         |         |         |         |
| Mangan                           | mg/l |         |         |         |         |         |         |         |
| Freie Kohlensäure                | mg/l |         |         |         |         |         |         |         |
| Sauerstoff (gelöst)              | mg/l |         |         |         |         |         |         |         |
| Sauerstoffsättigung              | %    |         |         |         |         |         |         |         |
| pH-Wert                          |      | 7.4     | 7.35    | 7.25    | 7.4     | 7.55    | 7.55    | 7.4     |

**WEITERE METALLE**

|             |      |  |  |       |  |  |  |  |
|-------------|------|--|--|-------|--|--|--|--|
| Strontium   | µg/l |  |  | 194   |  |  |  |  |
| Zink        | µg/l |  |  | < 2   |  |  |  |  |
| Cadmium     | µg/l |  |  | < 0.2 |  |  |  |  |
| Quecksilber | µg/l |  |  | < 0.2 |  |  |  |  |
| Blei        | µg/l |  |  | < 1   |  |  |  |  |

| DATUM DER PROBENAHME | 30.04.2009 | 09.11.2010 | 12.04.2011 | 04.10.2012 | 08.04.2013 | 22.10.2014 | 16.04.2015 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |     |     |     |      |     |      |     |
|----------------------------------|-------|-----|-----|-----|------|-----|------|-----|
| Temperatur des Wassers           | °C    | 9.0 | 9.3 | 9.1 | 10.2 | 8.8 | 10.0 | 9.2 |
| Temperatur der Luft              | °C    | 8.0 | 5.0 |     |      |     |      |     |
| Leitfähigkeit (20°C)             | µS/cm |     |     | 449 | 448  | 459 | 463  | 464 |
| Spektr. Absorptionskoeff. 254 nm | 1/m   | 0.4 | 0.4 | 0.4 | 0.1  | 0.4 | 0.4  | 0.4 |
| Ergiebigkeit / Pumpmenge         | l/min |     |     |     |      |     |      |     |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |  |   |    |    |    |   |   |   |
|--------------------------|--|---|----|----|----|---|---|---|
| PC-Agar (20°C) am 3. Tag |  | 8 | 62 | 17 |    |   |   |   |
| PC-Agar (30°C) am 3. Tag |  | 9 | 60 | 13 | 10 | 8 | 1 | 8 |

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  | 27.5    | 28.7    | 27.4    | 27.1    | 28.0    | 28.0    | 28.3    |
| Karbonathärte                    | °fH  | 24.8    | 25.8    | 24.9    | 24.6    | 25.2    | 25.4    | 25.4    |
| Resthärte                        | °fH  | 2.7     | 2.9     | 2.5     | 2.5     | 2.8     | 2.6     | 2.9     |
| Oxidierbarkeit                   | mg/l |         |         |         |         |         |         |         |
| Totaler organ. Kohlenstoff (TOC) | mg/l | 0.4     |         | 0.3     | 0.3     | 0.3     | 0.3     | 0.3     |
| Ammonium                         | mg/l | < 0.01  | < 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 | < 0.002 |
| Nitrat                           | mg/l | 8.5     | 10.0    | 10.0    | 9.5     | 8.9     | 10.1    | 9.6     |
| Chlorid                          | mg/l | 4.5     | 6.0     | 5.5     | 5.5     | 5.5     | 5.7     | 5.9     |
| Phosphat (als P)                 | mg/l | 0.004   | < 0.002 | < 0.002 | 0.002   | < 0.002 | 0.003   | 0.003   |
| Sulfat                           | mg/l | 16.5    | 18.0    | 18.0    | 18.5    | 18.6    | 18.0    | 18.9    |
| Eisen                            | mg/l |         |         |         |         |         |         |         |
| Mangan                           | mg/l |         |         |         |         |         |         |         |
| Freie Kohlensäure                | mg/l |         |         |         |         |         |         |         |
| Sauerstoff (gelöst)              | mg/l |         |         |         |         |         |         |         |
| Sauerstoffsättigung              | %    |         |         |         |         |         |         |         |
| pH-Wert                          |      |         |         | 7.5     | 7.5     | 7.9     | 7.7     |         |

**WEITERE METALLE**

|             |      |       |  |  |  |  |  |  |
|-------------|------|-------|--|--|--|--|--|--|
| Strontium   | µg/l | 234   |  |  |  |  |  |  |
| Zink        | µg/l | 11    |  |  |  |  |  |  |
| Cadmium     | µg/l | < 0.2 |  |  |  |  |  |  |
| Quecksilber | µg/l | < 0.2 |  |  |  |  |  |  |
| Blei        | µg/l | < 1   |  |  |  |  |  |  |

| DATUM DER PROBENAHME                       |        | 20.10.2016 | 27.03.2017 | 23.10.2018 | 23.04.2019 | 13.10.2020 | 22.04.2021 |
|--------------------------------------------|--------|------------|------------|------------|------------|------------|------------|
| <b>PHYSIKALISCHE PARAMETER</b>             |        |            |            |            |            |            |            |
| Temperatur des Wassers                     | °C     | 9.8        | 9.1        | 8.2        | 9.5        | 10.4       | 9.4        |
| Temperatur der Luft                        | °C     |            |            |            |            |            |            |
| Leitfähigkeit (20°C)                       | µS/cm  |            | 511        | 466        | 459        | 583        | 463        |
| Spektr. Absorptionskoeff. 254 nm           | 1/m    | 0.3        | 0.3        | 0.4        | 0.4        | 0.8        | 0.5        |
| Ergiebigkeit / Pumpmenge                   | l/min  |            |            |            |            |            |            |
| <b>BAKTERIOLOGIE</b>                       |        |            |            |            |            |            |            |
| Aerobe mesophile Keime pro 1 ml            |        |            |            |            |            |            |            |
| PC-Agar (20°C) am 3. Tag                   |        |            |            |            |            |            |            |
| PC-Agar (30°C) am 3. Tag                   |        | 0          | 0          | 6          | 11         | 120        |            |
| Fäkalkeime                                 |        |            |            |            |            |            |            |
| Escherichia coli                           | 100 ml | 0          | 0          | 0          | 0          | 0          |            |
| Enterokokken                               | 100 ml | 0          | 8          | 0          | 0          | 0          |            |
| <b>CHEMISCHE HAUPT- UND NEBENPARAMETER</b> |        |            |            |            |            |            |            |
| Gesamthärte                                | °fH    | 28.1       | 27.9       | 28.1       | 27.7       | 35.3       | 27.6       |
| Karbonathärte                              | °fH    | 25.4       | 25.1       | 25.0       | 24.8       | 32.5       | 24.4       |
| Resthärte                                  | °fH    | 2.7        | 2.8        | 3.1        | 2.9        | 2.8        | 3.2        |
| Oxidierbarkeit                             | mg/l   |            |            |            |            |            |            |
| Totaler organ. Kohlenstoff (TOC)           | mg/l   | < 0.3      |            | < 0.3      | < 0.3      | 0.7        | 0.3        |
| 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   | 9.1        | 9.7        | 9.6        | 9.6        | 8.8        | 9.0        |
| Chlorid                                    | mg/l   | 5.5        | 5.8        | 6.0        | 6.2        | 9.4        | 6.4        |
| Phosphat (als P)                           | mg/l   | 0.003      | 0.002      | 0.004      | < 0.002    | 0.004      | 0.006      |
| Sulfat                                     | mg/l   | 17.7       | 17.6       | 19.9       | 18.9       | 16.3       | 20.4       |
| Eisen                                      | mg/l   |            |            |            |            |            |            |
| Mangan                                     | mg/l   |            |            |            |            |            |            |
| Freie Kohlensäure                          | mg/l   |            |            |            |            |            |            |
| Sauerstoff (gelöst)                        | mg/l   |            |            |            |            |            |            |
| Sauerstoffsättigung                        | %      |            |            |            |            |            |            |
| pH-Wert                                    |        | 7.9        | 7.9        | 7.7        | 7.7        | 7.4        | 7.5        |
| <b>WEITERE METALLE</b>                     |        |            |            |            |            |            |            |
| Strontium                                  | µg/l   |            |            |            |            |            |            |
| Zink                                       | µg/l   |            |            |            |            |            |            |
| Cadmium                                    | µg/l   |            |            |            |            |            |            |
| Quecksilber                                | µg/l   |            |            |            |            |            |            |
| Blei                                       | µg/l   |            |            |            |            |            |            |