

r10(n=1.00)=124.2 l/(s\*ha), kb= 1.50 mm BERECHNUNG MIT DEM ZEITBEIWERT GEM. RAS-EW. BERECHNUNG MIT DEM SOHLGEFAELLE

| Sammeler | Schacht |       | Länge | Fläche    |        | Abflußwert bei PSI)* | Abfluß aus Einzugsgebiet | unmittelbarer Streckenzufluß |             | Q'    | Gefälle | Ø   | Geschwindigkeit |             | Fließzeit |        | Zeitbeiwert φ | Q' * φ )** | Q möglich |
|----------|---------|-------|-------|-----------|--------|----------------------|--------------------------|------------------------------|-------------|-------|---------|-----|-----------------|-------------|-----------|--------|---------------|------------|-----------|
|          | von     | bis   |       | einzelnen | gesamt |                      |                          | von Sammler                  | Abflußmenge |       |         |     | Voillfüllung    | Teilfüllung | einzelnen | gesamt |               |            |           |
| 1        | 2       | 3     | 4     | 5         | 6      | 7                    | 8                        | 9                            | 10          | 11    | 12      | 13  | 14              | 15          | 16        | 17     | 18            | 19         | 20        |
| -        | Nr.     | Nr.   | m     | ha        | ha     | -                    | l/s                      | -                            | l/s         | l/s   | 1:      | mm  | m/s             | m/s         | min       | min    | -             | l/s        | l/s       |
| 1        | 1-001   | 1-002 | 46.76 | 0.27      | 0.27   | 0.27                 | 25.2                     |                              |             | 25.2  | 292     | 300 | 0.8             | 0.77        |           | 1.0    | 1.00          | 25.2       | 57        |
| 1        | 1-002   | 1-004 | 55.25 | 0.18      | 0.45   | 0.750                | 16.8                     |                              |             | 41.9  | 307     | 300 | 0.8             | 0.86        |           | 2.1    | 1.00          | 41.9       | 56        |
| 1        | 1-004   | 1-005 | 46.00 | 0.09      | 0.54   | 0.790                | 8.8                      |                              |             | 50.7  | 307     | 400 | 1.0             | 0.90        |           | 3.0    | 1.00          | 50.7       | 120       |
| 1        | 1-005   | 1-006 | 46.00 | 0.15      | 0.69   | 0.830                | 15.5                     |                              |             | 66.2  | 287     | 400 | 1.0             | 0.99        |           | 3.8    | 1.00          | 66.2       | 124       |
| 1        | 1-006   | 1-007 | 46.00 | 0.10      | 0.79   | 0.770                | 9.6                      |                              |             | 75.8  | 307     | 400 | 1.0             | 1.00        |           | 4.6    | 1.00          | 75.8       | 120       |
| 1        | 1-007   | 1-008 | 60.00 | 0.09      | 0.88   | 0.770                | 8.6                      |                              |             | 84.4  | 400     | 400 | 0.8             | 0.92        |           | 5.7    | 1.00          | 84.4       | 105       |
| 1        | 1-008   | 1-009 | 59.99 | 0.20      | 1.08   | 0.750                | 18.6                     |                              |             | 103.0 | 400     | 500 | 1.0             | 0.97        |           | 6.8    | 1.00          | 103.0      | 189       |
| 1        | 1-009   | 1-010 | 60.00 | 0.29      | 1.37   | 0.780                | 28.1                     |                              |             | 131.1 | 400     | 500 | 1.0             | 1.03        |           | 7.8    | 1.00          | 131.1      | 189       |
| 1        | 1-010   | 1-011 | 60.10 | 0.22      | 1.59   | 0.730                | 19.9                     |                              |             | 151.1 | 240     | 500 | 1.2             | 1.30        |           | 8.6    | 1.00          | 151.1      | 244       |
| 1        | 1-011   | 1-012 | 60.00 | 0.22      | 1.81   | 0.750                | 20.5                     |                              |             | 171.5 | 37      | 500 | 3.2             | 2.71        |           | 9.0    | 1.00          | 171.5      | 622       |
| 1        | 1-012   | 1-013 | 60.00 | 0.29      | 2.10   | 0.800                | 28.8                     |                              |             | 200.4 | 32      | 500 | 3.4             | 3.01        |           | 9.3    | 1.00          | 200.4      | 675       |
| 1        | 1-013   | 1-014 | 59.99 | 0.20      | 2.30   | 0.750                | 18.6                     |                              |             | 219.0 | 25      | 500 | 3.9             | 3.34        |           | 9.6    | 1.00          | 219.0      | 756       |
| 1        | 1-014   | 1-015 | 60.03 | 0.19      | 2.49   | 0.820                | 19.4                     |                              |             | 238.3 | 20      | 500 | 4.4             | 3.74        |           | 9.9    | 1.00          | 238.3      | 855       |
| 1        | 1-015   | 1-016 | 60.00 | 0.24      | 2.73   | 0.850                | 25.3                     |                              |             | 263.7 | 21      | 500 | 4.2             | 3.76        |           | 10.2   | 1.00          | 263.7      | 826       |
| 1        | 1-016   | 1-017 | 60.01 | 0.18      | 2.91   | 0.840                | 18.8                     |                              |             | 282.5 | 20      | 500 | 4.4             | 3.92        |           | 10.4   | 1.00          | 282.5      | 855       |
| 1        | 1-017   | 1-018 | 60.02 | 0.18      | 3.09   | 0.840                | 18.8                     |                              |             | 301.2 | 24      | 500 | 3.9             | 3.65        |           | 10.7   | 1.00          | 301.2      | 767       |
| 1        | 1-018   | 1-019 | 26.50 | 0.19      | 3.28   | 0.810                | 19.1                     |                              |             | 320.3 | 41      | 500 | 3.0             | 3.04        |           | 10.9   | 1.00          | 320.3      | 590       |
| 1        | 1-019   | 1-020 | 4.21  |           | 3.28   |                      |                          |                              |             | 320.3 | 47      | 500 | 2.8             | 2.91        |           | 10.9   | 1.00          | 320.3      | 555       |

)\* mittlerer Abflußbeiwert

)\*\* bei konst. Zufluß gilt für die Spalte 19 die Formel (Q' -Summe Sp10)\*φ+Summe Sp10

| Sammeler              |       | Schacht | Länge | Fläche |        | Abflußwert bei PSI)* | Abfluß aus Einzugsgebiet | unmittelbarer Streckenzufluß |             | Q'    | Gefälle | Ø    | Geschwindigkeit |        | Fließzeit |      | Zeitwert bei φ | Q' * φ )** | Q möglich |
|-----------------------|-------|---------|-------|--------|--------|----------------------|--------------------------|------------------------------|-------------|-------|---------|------|-----------------|--------|-----------|------|----------------|------------|-----------|
| von                   | bis   |         |       | einzel | gesamt |                      |                          | von Sammler                  | Abflußmenge |       |         |      | Voillfüllung    | einzel | gesamt    |      |                |            |           |
| 1                     | 2     | 3       | 4     | 5      | 6      | 7                    | 8                        | 9                            | 10          | 11    | 12      | 13   | 14              | 15     | 16        | 17   | 18             | 19         | 20        |
| -                     | Nr.   | Nr.     | m     | ha     | ha     | -                    | l/s                      | -                            | l/s         | l/s   | 1:      | mm   | m/s             | m/s    | min       | min  | -              | l/s        | l/s       |
| 1                     | 1-020 | 1-021   | 55.84 | 0.18   | 5.30   | 0.800                | 17.9                     | 1.3                          | 168.3       | 506.6 | 935     | 900  | 0.9             | 1.02   | 11.8      | 1.00 | 506.6          | 582        |           |
| 1                     | 1-021 | 1-023   | 28.12 | 6.54   |        |                      |                          | 1.1                          | 99.4        | 616.0 | 704     | 1000 | 1.1             | 1.21   | 12.2      | 1.00 | 616.0          | 885        |           |
| 1                     | 1-023 | 1-024   | 15.51 | 6.66   | 0.770  | 11.5                 |                          | 1.2                          | 10.0        | 627.5 | 775     | 1000 | 1.1             | 1.17   | 12.4      | 1.00 | 627.5          | 842        |           |
| 1                     | 1-024 | 1-025   | 10.13 | 6.66   |        |                      |                          |                              |             | 627.5 | 1010    | 1000 | 0.9             | 1.05   | 12.6      | 1.00 | 627.5          | 736        |           |
| AUSLAUFBAUWERK TYP 90 |       |         |       |        |        |                      |                          |                              |             |       |         |      |                 |        |           |      |                |            |           |
| 1.1                   | 1-041 | 1-042   | 53.51 | 0.27   | 0.27   | 0.490                | 16.4                     |                              |             | 16.4  | 38      | 300  | 2.2             | 1.47   | 0.6       | 1.00 | 16.4           | 158        |           |
| 1.1                   | 1-042 | 1-045   | 18.34 | 0.23   | 0.50   | 0.480                | 13.7                     |                              |             | 30.1  | 38      | 300  | 2.2             | 1.74   | 0.8       | 1.00 | 30.1           | 159        |           |
|                       |       |         |       |        |        |                      |                          | 1.1.1                        | 5.6         |       |         |      |                 |        |           |      |                |            |           |
|                       |       |         |       |        |        |                      |                          | 1.1.2                        | 13.4        |       |         |      |                 |        |           |      |                |            |           |
| 1.1                   | 1-045 | 1-046   | 60.27 | 0.18   | 0.85   | 0.900                | 20.1                     |                              |             | 69.3  | 158     | 300  | 1.1             | 1.23   | 2.4       | 1.00 | 69.3           | 78         |           |
| 1.1                   | 1-046 | 1-047   | 59.99 | 0.11   | 0.96   | 0.900                | 12.3                     |                              |             | 81.6  | 162     | 400  | 1.3             | 1.29   | 3.2       | 1.00 | 81.6           | 165        |           |
| 1.1                   | 1-047 | 1-049   | 58.81 | 0.11   | 1.07   | 0.900                | 12.3                     |                              |             | 93.9  | 159     | 400  | 1.3             | 1.35   | 3.9       | 1.00 | 93.9           | 166        |           |
| 1.1                   | 1-049 | 1-021   | 26.02 | 0.05   | 1.12   | 0.900                | 5.6                      |                              |             | 99.4  | 153     | 400  | 1.3             | 1.40   | 4.2       | 1.00 | 99.4           | 170        |           |
| 1.1.1                 | SAM-8 | 1-045   | 30.56 | 0.05   | 0.05   | 0.900                | 5.6                      |                              |             | 5.6   | 382     | 300  | 0.7             | 0.50   | 1.0       | 1.00 | 5.6            | 50         |           |
| 1.1.2                 | 1-043 | 1-044   | 39.10 | 0.04   | 0.04   | 0.900                | 4.5                      |                              |             | 4.5   | 44      | 300  | 2.1             | 0.87   | 0.7       | 1.00 | 4.5            | 148        |           |

) \* mittlerer Abflußbeiwert

) \*\* bei konst. Zufluß gilt für die Spalte 19 die Formel (Q' - Summe Sp10) \* φ + Summe Sp10

r10(n=1.00)=124.2 l/(s\*ha), kb= 1.50 mm

| Sammeler | Schacht |       | Länge | Fläche    |        | Abflußwert bei PSI)* | Abfluß aus Einzugsgebiet | unmittelbarer Streckenzufluß |             | Q'    | Gefälle | Ø   | Geschwindigkeit |             | Fließzeit |        | Zeitwert φ | Q' * φ )** | Q möglich |
|----------|---------|-------|-------|-----------|--------|----------------------|--------------------------|------------------------------|-------------|-------|---------|-----|-----------------|-------------|-----------|--------|------------|------------|-----------|
|          | von     | bis   |       | einzelnen | gesamt |                      |                          | von Sammler                  | Abflußmenge |       |         |     | Voillfüllung    | Teilfüllung | einzelnen | gesamt |            |            |           |
| 1        | 2       | 3     | 4     | 5         | 6      | 7                    | 8                        | 9                            | 10          | 11    | 12      | 13  | 14              | 15          | 16        | 17     | 18         | 19         | 20        |
| -        | Nr.     | Nr.   | m     | ha        | ha     | -                    | l/s                      | -                            | l/s         | l/s   | 1:      | mm  | m/s             | m/s         | min       | min    | -          | l/s        | l/s       |
| 1. 1. 2  | 1-044   | 1-045 | 59.83 | 0.08      | 0.12   | 0.900                | 8.9                      |                              |             | 13.4  | 44      | 300 | 2.1             | 1.32        |           | 1.5    | 1.00       | 13.4       | 147       |
| 1. 2     | 1-022   | 1-021 | 17.39 | 0.12      | 0.12   | 0.670                | 10.0                     |                              |             | 10.0  | 193     | 300 | 1.0             | 0.71        |           | 0.4    | 1.00       | 10.0       | 70        |
| 1. 3     | 1-026   | 1-027 | 16.00 | 0.14      | 0.14   | 0.710                | 12.3                     |                              |             | 12.3  | 84      | 300 | 1.5             | 1.02        |           | 0.3    | 1.00       | 12.3       | 107       |
| 1. 3     | 1-027   | 1-028 | 56.00 |           | 0.14   |                      |                          |                              |             | 12.3  | 60      | 300 | 1.8             | 1.16        |           | 1.1    | 1.00       | 12.3       | 127       |
| 1. 3     | 1-028   | 1-029 | 23.90 | 0.18      | 0.32   | 0.370                | 8.3                      |                              |             | 20.6  | 65      | 300 | 1.7             | 1.30        |           | 1.4    | 1.00       | 20.6       | 122       |
|          |         |       |       |           |        |                      |                          | 1. 3. 2                      | 9.0         |       |         |     |                 |             |           |        |            |            |           |
| 1. 3     | 1-029   | 1-030 | 54.15 | 0.05      | 0.48   | 0.660                | 4.1                      |                              |             | 33.7  | 80      | 300 | 1.6             | 1.37        |           | 2.1    | 1.00       | 33.7       | 110       |
| 1. 3     | 1-030   | 1-031 | 35.14 | 0.15      | 0.63   | 0.640                | 11.9                     |                              |             | 45.7  | 80      | 300 | 1.6             | 1.47        |           | 2.5    | 1.00       | 45.7       | 110       |
|          |         |       |       |           |        |                      |                          | 1. 3. 1                      | 71.0        |       |         |     |                 |             |           |        |            |            |           |
| 1. 3     | 1-031   | 1-032 | 44.42 | 0.07      | 1.35   | 0.730                | 6.3                      |                              |             | 123.0 | 148     | 400 | 1.4             | 1.48        |           | 3.4    | 1.00       | 123.0      | 172       |
| 1. 3     | 1-032   | 1-033 | 34.69 | 0.14      | 1.49   | 0.730                | 12.7                     |                              |             | 135.7 | 94      | 500 | 2.0             | 1.81        |           | 3.7    | 1.00       | 135.7      | 391       |
| 1. 3     | 1-033   | 1-020 | 27.13 | 0.35      | 1.84   | 0.750                | 32.6                     |                              |             | 168.3 | 452     | 600 | 1.0             | 1.05        |           | 4.2    | 1.00       | 168.3      | 287       |
| 1. 3. 1  | 1-034   | 1-035 | 59.99 | 0.13      | 0.13   | 0.880                | 14.2                     |                              |             | 14.2  | 55      | 300 | 1.9             | 1.24        |           | 0.8    | 1.00       | 14.2       | 132       |
| 1. 3. 1  | 1-035   | 1-036 | 60.00 | 0.13      | 0.26   | 0.880                | 14.2                     |                              |             | 28.4  | 55      | 300 | 1.9             | 1.51        |           | 1.5    | 1.00       | 28.4       | 132       |
| 1. 3. 1  | 1-036   | 1-037 | 59.99 | 0.13      | 0.39   | 0.880                | 14.2                     |                              |             | 42.6  | 55      | 300 | 1.9             | 1.68        |           | 2.1    | 1.00       | 42.6       | 132       |
| 1. 3. 1  | 1-037   | 1-038 | 59.93 | 0.13      | 0.52   | 0.880                | 14.2                     |                              |             | 56.8  | 55      | 300 | 1.9             | 1.78        |           | 2.7    | 1.00       | 56.8       | 132       |
| 1. 3. 1  | 1-038   | 1-031 | 16.57 | 0.13      | 0.65   | 0.880                | 14.2                     |                              |             | 71.0  | 55      | 300 | 1.9             | 1.88        |           | 2.9    | 1.00       | 71.0       | 132       |
| 1. 3. 2  | 1-039   | 1-040 | 28.70 | 0.06      | 0.06   | 0.660                | 4.9                      |                              |             | 4.9   | 37      | 300 | 2.3             | 0.96        |           | 0.5    | 1.00       | 4.9        | 162       |

)\* mittlerer Abflußbeiwert  
)\*\* bei konst. Zufluß gilt für die Spalte 19 die Formel (Q' -Summe Sp10)\*φ+Summe Sp10

BERECHNUNG MIT DEM ZEITBEIWERTE GEM. RAS-EW.      BERECHNUNG MIT DEM SOHLGEFAELLE

| Sammler | Schacht |       | Länge | Fläche    |        | Abflußwert bei PSI)* | Abfluß aus Einzugsgebiet | unmittelbarer Streckenzufluß |             | Q'  | Gefälle | Ø   | Geschwindigkeit |         | Fließzeit |        | Zeitwert φ | Q' * φ )** | Q möglich |
|---------|---------|-------|-------|-----------|--------|----------------------|--------------------------|------------------------------|-------------|-----|---------|-----|-----------------|---------|-----------|--------|------------|------------|-----------|
|         | von     | bis   |       | einzelnen | gesamt |                      |                          | von Sammler                  | Abflußmenge |     |         |     | Voillfüllung    | Teilung | einzelnen | gesamt |            |            |           |
| 1       | 2       | 3     | 4     | 5         | 6      | 7                    | 8                        | 9                            | 10          | 11  | 12      | 13  | 14              | 15      | 16        | 17     | 18         | 19         | 20        |
| -       | Nr.     | Nr.   | m     | ha        | ha     | -                    | l/s                      | -                            | l/s         | l/s | 1:      | mm  | m/s             | m/s     | min       | min    | -          | l/s        | l/s       |
| 1. 3. 2 | 1-040   | 1-029 | 28.58 | 0.05      | 0.11   | 0.660                | 4.1                      |                              |             | 9.0 | 37      | 300 | 2.3             | 1.27    | 0.9       | 0.9    | 1.00       | 9.0        | 162       |

)\* mittlerer Abflußbeiwert  
 )\*\* bei konst. Zufluß gilt für die Spalte 19 die Formel (Q'-Summe Sp10)\*φ+Summe Sp10