

TABLE 39

TCEQ Segment 1812  
 TCEQ Station 16703  
 Station Name Guadalupe River at FM306  
 Latitude 29.863186 Longitude -98.164927

| Parameter                         | Parameter Code | Date and 24 hour time |          |         |        |         |         |        |        |        |         |         |
|-----------------------------------|----------------|-----------------------|----------|---------|--------|---------|---------|--------|--------|--------|---------|---------|
|                                   |                | 10/16/12              | 12/12/12 | 3/19/13 | 6/3/13 | 10/8/13 | 1/15/14 | 4/8/14 | 6/9/14 | 9/2/14 | 10/7/14 | 12/2/14 |
| Flow (cfs)                        | 00061          | 62                    | 54       | 56      | 103    | 56      | 53      | 52     | 59     | 59     | 66      | 54      |
| E. coli(org/100mL)                | 31699          | 110                   | 120      | 44      | 74     | 62      | 66      | 44     | 440    | 110    | 120     | 100     |
| Suspended Solids(mg/L)            | 00530          | 2.7                   | 3.9      | 7.6     | 17.6   | 3.4     | 4.80    | 5.00   | 1.50   |        | 7.10    | 10.6    |
| Turbidity(NTU)                    | 82079          | 2                     | 3.9      | 8.7     | 12.2   | 3.4     | 4.2     | 6.0    | 5.7    |        | 5.6     | 8.3     |
| pH                                | 00400          | 7.9                   | 8.2      | 8.2     | 7.9    | 8.3     | 7.8     | 8.2    | 7.7    | 7.9    | 7.9     | 7.5     |
| Temperature(C)                    | 00010          | 20                    | 13.2     | 18.3    | 19.9   | 19.1    | 12.1    | 16.2   | 19.1   | 19.5   | 18.6    | 12.2    |
| Dissolved Oxygen(mg/L)            | 00300          | 10                    | 12.1     | 9.2     | 10.5   | 10.4    | 11.4    | 11.2   | 8.7    | 9.3    | 10.0    | 10.4    |
| Conductivity(umhos/cm)            | 00094          | 406                   | 443      | 378     | 432    | 419     | 467     | 417    | 417    | 388    | 425     | 428     |
| Total Phosphorus(mg/L)            | 00665          | <0.02                 | <0.02    | <0.02   | 0.02   | <0.02   | <0.02   | <0.02  | <0.02  |        | <0.02   | <0.02   |
| Nitrate-N(mg/L)                   | 00620          | 0.12                  | 0.15     | 0.06    | 0.12   | 0.07    | 0.11    | 0.12   | 0.17   |        | 0.06    | 0.07    |
| Chloride(mg/L)                    | 00940          | 21                    | 19.9     | 21.4    | 19.8   | 20.7    | 18.5    | 20.3   | 20.7   |        | 19.9    | 20.4    |
| Sulfate(mg/L)                     | 00945          | 25                    | 22.9     | 28.1    | 25.5   | 23.5    | 25.5    | 26.3   | 29.1   |        | 22.6    | 24.6    |
| Total Hardness(mg/L)              | 00900          | 187                   | 219      | 189     | 196    | 195     | 196     | 186    | 198    |        | 188     | 217     |
| Ammonia-N(mg/L)                   | 00610          | 0.2                   | 0.21     | 0.13    | 0.15   | 0.1     | <0.10   | 0.31   | 0.31   |        | 0.12    | 0.26    |
| Chlorophyll a(mg/m <sup>3</sup> ) | 32211          |                       | 4.78     | <1      | 1.8    | <1      | <1.0    | <1.0   | <1.0   |        | 1.69    | 1.48    |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          |                       | <1       | <1      | <1     | <1      | <1.0    | <1.0   | 1.89   |        | <1.0    | 1.15    |
| Total Kjeldahl Nitroqen (mg/L)    | 00625          |                       | 0.2      | 0.22    | 0.43   | <0.2    | <0.20   | 0.289  | 0.43   |        | 0.27    | 0.40    |

| Parameter                         | Parameter Code | Date and 24 hour time |        |          |         |        |         |         |          |         |         |         |         |
|-----------------------------------|----------------|-----------------------|--------|----------|---------|--------|---------|---------|----------|---------|---------|---------|---------|
|                                   |                | 4/6/15                | 6/8/15 | 11/11/15 | 2/10/16 | 3/7/16 | 7/11/16 | 9/19/16 | 12/14/16 | 4/17/17 | 7/17/17 | 9/14/17 | 12/4/17 |
| Flow (cfs)                        | 00061          | 76                    | 5540   | 1060     | 287     | 161    | 932     | 210     | 337      | 448     | 103     | 50      | 73      |
| E. coli(org/100mL)                | 31699          | 170                   | 15     | 42       | 20      | 49     | 47      | 58      | 120      | 86      | 26      | 46      | 230     |
| Suspended Solids(mg/L)            | 00530          | 5.70                  | 7.10   | 5.30     | 4.90    | 11.2   | 6.20    | 2.70    | 10.8     | 3.10    | 4.70    | 2.50    | 5.40    |
| Turbidity(NTU)                    | 82079          | 5.7                   | 12.2   | 5.4      | 5.8     | 9.5    | 4.9     | 2.4     | 9.0      | 4.0     | 4.5     | 1.5     | 3.1     |
| pH                                | 00400          | 8.4                   | 7.5    | 7.8      | 7.7     | 7.7    | 7.7     | 7.1     | 7.4      | 7.7     | 7.8     | 7.7     | 7.7     |
| Temperature(C)                    | 00010          | 14.1                  | 17.0   | 22.0     | 15.3    | 15.1   | 24.7    | 24.3    | 17.0     | 16.5    | 21.2    | 21.9    | 19.4    |
| Dissolved Oxygen(mg/L)            | 00300          | 10.6                  | 12.1   | 7.8      | 10.2    | 8.8    | 5.7     | 7.1     | 9.3      | 9.3     | 9.4     | 8.8     | 7.7     |
| Conductivity(umhos/cm)            | 00094          | 426                   | 375    | 414      | 519     | 481    | 460     | 677     | 538      | 451     | 457     | 482     | 451     |
| Total Phosphorus(mg/L)            | 00665          | <0.02                 | <0.02  | 0.02     | <0.02   | 0.02   | 0.02    | <0.02   | <0.02    | <0.02   | <0.02   | <0.02   | 0.02    |
| Nitrate-N(mg/L)                   | 00620          | <0.05                 | 0.25   | 0.14     | 0.21    | 0.37   | 0.49    | 0.24    | 0.25     | 0.30    | 0.14    | 0.16    | 0.09    |
| Chloride(mg/L)                    | 00940          | 24.8                  | 16.2   | 15.2     | 18.5    | 17.1   | 12.4    | 15.8    | 18.8     | 15.8    | 17.6    | 18.0    | 17.6    |
| Sulfate(mg/L)                     | 00945          | 30.3                  | 19.3   | 19.6     | 25.8    | 37.8   | 18.5    | 50.1    | 45.6     | 47.7    | 20.8    | 36.5    | 24.2    |
| Total Hardness(mg/L)              | 00900          | 210                   | 166    | 186      | 199     | 226    | 212     | 279     | 253      | 230     | 210     | 246     | 212     |
| Ammonia-N(mg/L)                   | 00610          | 0.10                  | <0.10  | 0.15     | <0.10   | <0.10  | <0.10   | 0.2     | <0.10    | 0.18    | <0.10   | 0.14    | 0.39    |
| Chlorophyll a(mg/m <sup>3</sup> ) | 32211          | 1.90                  | <1.00  | <1.00    | 1.63    | 2.70   | <1.0    | <1.0    | 1.16     | 1.30    | <1.00   | 1.42    | 1.04    |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          | <1.0                  | <1.00  | <1.00    | <1.0    | <1.0   | <1.0    | <1.0    | <1.00    | <1.00   | <1.00   | <1.00   | <1.00   |
| Total Kjeldahl Nitroqen (mg/L)    | 00625          | 0.20                  | <0.20  | 0.49     | 0.40    | 0.44   | 0.21    | 0.43    | 0.24     | 0.34    | 0.42    | 0.46    | 0.83    |

| Parameter                         | Parameter Code | Date and 24 hour time |        |        |         |         |        |  |
|-----------------------------------|----------------|-----------------------|--------|--------|---------|---------|--------|--|
|                                   |                | 3/8/18                | 6/7/18 | 9/6/18 | 12/8/18 | 5/22/19 | 7/1/19 |  |
| Flow (cfs)                        | 00061          | 84                    | 49     | 67     | 408     | 1650    | 360    |  |
| E. coli(org/100mL)                | 31699          | 91                    | 130    | 290    | 150     | 8.6     | 46     |  |
| Suspended Solids(mg/L)            | 00530          | 4.9                   | 6.9    | 6      | 5       | 10.2    | 13.5   |  |
| Turbidity(NTU)                    | 82079          | 6.5                   | 8.7    | 4.5    | 4.8     | 2       | 6.8    |  |
| pH                                | 00400          | 8.1                   | 7.5    | 8      | 8       | 8       | 7.4    |  |
| Temperature(C)                    | 00010          | 12.4                  | 22.1   | 18.9   | 15.8    | 16.4    | 20.2   |  |
| Dissolved Oxygen(mg/L)            | 00300          | 11.2                  | 10.2   | 10.2   | 10.1    | 10.6    | 10.9   |  |
| Conductivity(umhos/cm)            | 00094          | 410                   | 423    | 408    | 442     | 435     | 474    |  |
| Total Phosphorus(mg/L)            | 00665          | <0.02                 | 0.02   | <0.02  | 0.02    | <0.02   | 0.027  |  |
| Nitrate-N(mg/L)                   | 00620          | 0.13                  | 0.13   | 0.13   | 0.43    | 0.386   | 0.37   |  |
| Chloride(mg/L)                    | 00940          | 19.6                  | 20.6   | 20.1   | 18.6    | 19.4    | 19.9   |  |
| Sulfate(mg/L)                     | 00945          | 23.9                  | 24.9   | 22.6   | 23.1    | 26.4    | 38.5   |  |
| Total Hardness(mg/L)              | 00900          | 193                   | 189    | 193    | 215     | 216     | 233    |  |
| Ammonia-N(mg/L)                   | 00610          | <0.10                 | <0.10  | <0.10  | <0.10   | <0.10   | <0.10  |  |
| Chlorophyll a(mg/m <sup>3</sup> ) | 32211          | 1.1                   | 1.87   | 1.13   | <1.00   | 1.57    | 1.22   |  |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          | <1.00                 | 1.18   | <1.00  | <1.00   | <1.00   | <1.00  |  |
| Total Kjeldahl Nitroqen (mg/L)    | 00625          | 0.27                  | 0.24   | <0.20  | <0.20   | 0.38    | 0.57   |  |