

Appendix L. Segment 0833 Tabular Water Quality Data

Table L-1 Physical Parameters for Segment 0833

| TCEQ Station | Date | Time | Depth (m) | DO (mg/L) | pH (SU) | Cond (umhos/ cm) | Temp (C) | Zsd (m) | Inst Flow (cfs) |
|--------------|-----------|-------|-----------|-----------|---------|------------------|----------|---------|-----------------|
| 11062 | 26-Jul-01 | 09:09 | 0.1 | 5.0 | 7.7 | 1040 | 27.8 | | 0.1 |
| 17461 | 26-Jul-01 | 09:42 | 0.1 | 4.9 | 7.4 | 911 | 26.4 | | 0.4 |
| 17462 | 26-Jul-01 | 10:16 | 0.1 | 7.3 | 8.0 | 785 | 27.2 | | 0.2 |
| 17463 | 26-Jul-01 | 08:40 | 0.2 | 2.3 | 7.8 | 1110 | 26.3 | | 0.0 |
| 17461 | 22-Aug-01 | 13:45 | 0.3 | 11.5 | 7.6 | 794 | 29.7 | 0.35 | 0.4 |
| 17462 | 22-Aug-01 | 09:36 | 0.2 | 6.1 | 7.9 | 748 | 25.5 | 0.51 | 0.2 |
| 11062 | 23-Aug-01 | 10:50 | 0.5 | 2.6 | 7.6 | 1010 | 26.6 | 0.23 | 0.1 |
| 17463 | 23-Aug-01 | 08:11 | 0.2 | 0.4 | 7.0 | 1240 | 24.8 | 0.46 | 0.0 |
| 11062 | 19-Sep-01 | 09:51 | 0.2 | 5.1 | 7.7 | 894 | 23.0 | 0.30 | 0.1 |
| 17461 | 19-Sep-01 | 13:25 | 0.3 | 8.9 | 7.6 | 854 | 24.0 | 0.81 | 0.9 |
| 17462 | 19-Sep-01 | 14:30 | 0.3 | 8.4 | 8.1 | 766 | 23.7 | 0.67 | 0.5 |
| 17463 | 19-Sep-01 | 11:53 | 0.2 | 4.1 | 7.9 | 793 | 23.9 | 0.30 | 0.0 |
| 11062 | 4-Oct-01 | 09:13 | 0.2 | 4.3 | 7.7 | 968 | 18.6 | | 0.1 |
| 17461 | 4-Oct-01 | 09:50 | 0.1 | 7.0 | 7.6 | 876 | 19.9 | | 0.5 |
| 17462 | 4-Oct-01 | 10:20 | 0.2 | 7.5 | 8.0 | 780 | 19.5 | | 0.5 |
| 17463 | 4-Oct-01 | 08:40 | 0.2 | 1.9 | 7.7 | 956 | 19.1 | | 0.0 |
| 11062 | 26-Mar-02 | 12:52 | 0.2 | 10.9 | 8.1 | 801 | 12.3 | | 8.3 |
| 16415 | 26-Mar-02 | 11:16 | 0.2 | 11.4 | 7.9 | 352 | 7.7 | | 0.3 |
| 17459 | 26-Mar-02 | 10:36 | 0.2 | 11.9 | 8.0 | 337 | 9.0 | | 0.8 |
| 17460 | 26-Mar-02 | 11:47 | 0.1 | 11.2 | 7.8 | 450 | 9.3 | | 1.5 |
| 17461 | 26-Mar-02 | 13:23 | 0.2 | 10.7 | 8.1 | 808 | 13.8 | | 8.4 |
| 17462 | 26-Mar-02 | 13:51 | 0.1 | 10.6 | 8.1 | 777 | 14.0 | | 10 |
| 17463 | 26-Mar-02 | 12:20 | 0.2 | 10.8 | 7.8 | 691 | 11.4 | | 2.1 |
| 11062 | 16-Apr-02 | 15:56 | 0.2 | 9.4 | 8.3 | 760 | 23.3 | | 8.0 |
| 16415 | 16-Apr-02 | 14:36 | 0.2 | 7.0 | 7.8 | 718 | 22.2 | | 0.8 |
| 17459 | 16-Apr-02 | 14:06 | 0.1 | 7.9 | 7.9 | 594 | 23.2 | | 0.8 |
| 17460 | 16-Apr-02 | 14:58 | 0.1 | 9.2 | 8.1 | 809 | 24.1 | | 1.5 |
| 17461 | 16-Apr-02 | 16:26 | 0.2 | 10.4 | 8.4 | 742 | 25.0 | | 9.8 |
| 17462 | 16-Apr-02 | 16:56 | 0.2 | 8.8 | 8.3 | 719 | 24.5 | | 14 |
| 17463 | 16-Apr-02 | 15:30 | 0.2 | 10.7 | 8.2 | 768 | 25.0 | | 2.4 |
| 17459 | 30-Apr-02 | 11:35 | 0.1 | 4.2 | 7.9 | 1510 | 22.7 | | 0.1 |
| 17460 | 30-Apr-02 | 11:29 | 0.1 | 6.3 | 7.7 | 1580 | 23.1 | | 0.2 |
| 11062 | 1-May-02 | 12:18 | 0.2 | 8.9 | 8.2 | 1040 | 26.1 | 0.30 | 0.6 |
| 16415 | 1-May-02 | 15:35 | 0.2 | 7.6 | 8.1 | 1340 | 28.0 | 0.48 | 0.3 |
| 17463 | 1-May-02 | 17:57 | 0.2 | 7.4 | 8.2 | 1320 | 30.2 | 0.43 | 0.5 |
| 17461 | 2-May-02 | 12:22 | 0.2 | 8.3 | 8.1 | 961 | 21.5 | 0.41 | 2.7 |
| 17462 | 2-May-02 | 13:12 | 0.2 | 8.0 | 8.2 | 904 | 21.5 | 0.71 | 1.3 |
| 11062 | 4-Jun-02 | 16:14 | 0.2 | 7.3 | 8.1 | 639 | 28.8 | 0.28 | 2.4 |
| 16415 | 4-Jun-02 | 11:52 | 0.1 | 7.2 | 8.0 | 623 | 25.3 | 0.28 | 0.1 |
| 17459 | 4-Jun-02 | 10:50 | 0.1 | 6.2 | 7.9 | 391 | 24.1 | | 0.2 |
| 17460 | 4-Jun-02 | 11:26 | 0.1 | 7.5 | 8.0 | 1560 | 27.2 | | 0.1 |
| 17461 | 4-Jun-02 | 14:00 | 0.2 | 11.7 | 8.2 | 616 | 28.9 | 0.33 | 3.8 |

Table L-1 continued on next page

Table L-1 Physical Parameters for Segment 0833

| TCEQ Station | Date | Time | Depth (m) | DO (mg/L) | pH (SU) | Cond (umhos/ cm) | Temp (C) | Zsd (m) | Inst Flow (cfs) |
|--------------|-----------|-------|-----------|-----------|---------|------------------|----------|---------|-----------------|
| 17462 | 4-Jun-02 | 15:10 | 0.1 | 9.1 | 8.2 | 851 | 27.8 | 0.76 | 4.0 |
| 17463 | 4-Jun-02 | 13:01 | 0.1 | 7.3 | 8.2 | 1240 | 29.3 | 0.46 | 0.2 |
| 17461 | 23-Jul-02 | 15:28 | 0.2 | 12.2 | 7.9 | 866 | 31.5 | 0.64 | 0.7 |
| 17462 | 23-Jul-02 | 14:30 | 0.2 | 10.2 | 8.2 | 647 | 30.2 | 0.75 | 1.0 |
| 16415 | 24-Jul-02 | 10:28 | 0.2 | 3.1 | 7.7 | 1920 | 24.6 | 0.43 | 0.0 |
| 17463 | 24-Jul-02 | 08:50 | 0.2 | 0.3 | 7.5 | 1110 | 26.3 | 0.37 | 0.0 |
| 11062 | 25-Jul-02 | 08:16 | 0.1 | 3.3 | 7.7 | 990 | 25.7 | 0.37 | 0.2 |
| 11062 | 22-Aug-02 | 11:34 | 0.1 | 5.0 | 7.9 | 972 | 26.9 | | 0.0 |
| 16415 | 22-Aug-02 | 10:47 | 0.1 | 1.8 | 8.0 | 1970 | 24.6 | | 0.0 |
| 17461 | 22-Aug-02 | 12:32 | 0.1 | 7.6 | 7.4 | 873 | 29.0 | | 0.2 |
| 17462 | 22-Aug-02 | 12:56 | 0.2 | 4.0 | 7.9 | 758 | 26.4 | | 0.0 |
| 17463 | 22-Aug-02 | 11:14 | 0.1 | 0.8 | 7.2 | 1230 | 24.9 | | 0.0 |
| 11062 | 23-Sep-02 | 11:57 | 0.2 | 5.5 | 7.9 | 898 | 20.0 | | 0.1 |
| 16415 | 23-Sep-02 | 12:27 | 0.2 | 3.9 | 7.8 | 2000 | 17.0 | | 0.0 |
| 17461 | 23-Sep-02 | 11:42 | 0.2 | 10.5 | 7.7 | 892 | 21.8 | | 0.1 |
| 17462 | 23-Sep-02 | 11:21 | 0.2 | 5.3 | 7.8 | 706 | 18.1 | | 0.0 |

Table L-2 Chemical Parameters for Segment 0833

| TCEQ Station | Date | Time | Depth (m) | NH ₃ (mg/L) | Chloride (mg/L) | Chla (ug/L) | NO ₂₊₃ (mg/L) | Pheo (ug/L) | SO ₄ (mg/L) | O-PO ₄ (mg/L) | Tot Alk (mg/L) | TDS (mg/L) | TKN (mg/L) | TOC (mg/L) | TP (mg/L) | TSS (mg/L) | VSS (mg/L) | CBOD ₅ (mg/L) |
|--------------|-----------|-------|-----------|------------------------|-----------------|-------------|--------------------------|-------------|------------------------|--------------------------|----------------|------------|------------|------------|-----------|------------|------------|--------------------------|
| 17462 | 22-Aug-01 | 09:36 | 0.15 | <0.031 | 64.0 | 1.03 | <0.024 | <1.55 | 67 | 0.030 | 213 | 478 | 0.37 | 2.8 | 0.070 | <8 | <4 | <2.2 |
| 17461 | 22-Aug-01 | 13:45 | 0.30 | 0.035 | 64.0 | 3.63 | 0.050 | <1.55 | 78 | 0.010 | 259 | 544 | 0.33 | 2.7 | 0.050 | 11 | <4 | <2.2 |
| 17463 | 23-Aug-01 | 08:11 | 0.15 | 1.060 | 107 | 7.23 | <0.024 | <1.55 | <10 | 0.005 | 498 | 712 | 1.52 | 5.6 | 0.720 | 21 | 6.5 | 2.40 |
| 11062 | 23-Aug-01 | 10:50 | 0.46 | 0.130 | 94.0 | 11.40 | 0.030 | <1.55 | 76 | 0.050 | 307 | 610 | 0.42 | 2.7 | 0.150 | 67 | 8.5 | <2.2 |
| 11062 | 19-Sep-01 | 09:51 | 0.15 | 0.034 | 70.0 | 3.94 | <0.024 | <1.55 | 70 | 0.040 | 320 | 530 | 0.19 | 5.1 | 0.070 | 19 | <4 | <2.2 |
| 17463 | 19-Sep-01 | 11:53 | 0.15 | <0.031 | 68.0 | 222 | <0.024 | <1.55 | 30 | 0.110 | 282 | 496 | 2.08 | 7.8 | 0.310 | 13 | 9.25 | 10.1 |
| 17461 | 19-Sep-01 | 13:25 | 0.30 | <0.031 | 68.0 | 3.92 | <0.024 | <1.55 | 78 | <.004 | 284 | 574 | 0.23 | 3.0 | <0.017 | 12 | <4 | <2.2 |
| 17462 | 19-Sep-01 | 14:30 | 0.30 | <0.031 | 63.0 | 1.88 | <0.024 | <1.55 | 72 | 0.020 | 257 | 522 | 0.29 | 3.4 | 0.019 | <8 | <4 | <2.2 |
| 11062 | 1-May-02 | 12:18 | 0.15 | 0.070 | 100 | 9.86 | <0.018 | <1.21 | 64 | 0.050 | 407 | 646 | 0.64 | 4.8 | 0.140 | 11 | <4 | <2.2 |
| 16415 | 1-May-02 | 15:35 | 0.15 | 0.220 | 192 | 6.94 | 0.040 | <1.21 | 73 | 0.032 | 378 | 800 | 1.02 | 10.3 | 0.140 | 5 | <4 | <2.2 |
| 17463 | 1-May-02 | 17:57 | 0.15 | 0.080 | 137 | 8.86 | <0.018 | 1.41 | 110 | 0.078 | 459 | 852 | 0.95 | 7.4 | 0.170 | 12 | <4 | <2.2 |
| 17461 | 2-May-02 | 12:22 | 0.15 | 0.080 | 82.0 | 14.50 | 0.310 | 2.81 | 65 | 0.053 | 375 | 640 | 0.49 | 4.2 | 0.150 | 24 | <4 | <2.2 |
| 17462 | 2-May-02 | 13:12 | 0.15 | 0.140 | 78.0 | 6.40 | 0.270 | 1.59 | 63 | 0.060 | 357 | 588 | 0.62 | 3.8 | 0.140 | 13 | <4 | <2.2 |
| 16415 | 4-Jun-02 | 11:52 | 0.08 | 0.070 | 78.0 | 50.40 | 0.070 | 7.40 | 30 | 0.022 | 192 | 398 | 1.57 | 9.1 | 0.270 | 62 | 13.2 | 2.99 |
| 17463 | 4-Jun-02 | 13:01 | 0.08 | 0.050 | 126 | 5.87 | 0.030 | 2.34 | 103 | 0.132 | 448 | 812 | 0.78 | 5.5 | 0.240 | 28 | 8 | <2.2 |
| 17461 | 4-Jun-02 | 14:00 | 0.15 | <0.019 | 40.0 | 18.10 | 0.100 | 1.86 | 39 | 0.043 | 240 | 432 | 0.76 | 6.0 | 0.160 | 23 | 6 | <2.2 |
| 17462 | 4-Jun-02 | 15:10 | 0.08 | 0.030 | 70.0 | 3.48 | 0.130 | <1.21 | 61 | 0.038 | 333 | 558 | 0.46 | 3.6 | 0.140 | 7 | <4 | <2.2 |
| 11062 | 4-Jun-02 | 16:14 | 0.15 | 0.030 | 40.0 | 12.60 | <0.018 | <1.21 | 34 | 0.046 | 268 | 422 | 0.65 | 6.4 | 0.230 | 46 | 7 | <2.2 |
| 17462 | 23-Jul-02 | 14:30 | 0.15 | <0.019 | 46.0 | 0.82 | 0.060 | <1.21 | 45 | 0.013 | 226 | 422 | 0.26 | 3.4 | <0.082 | <3 | <4 | <2.2 |
| 17461 | 23-Jul-02 | 15:28 | 0.15 | 0.020 | 69.0 | 2.66 | 0.100 | 1.44 | 69 | 0.013 | 296 | 544 | 0.35 | 3.2 | <0.082 | 16 | 4.75 | <2.2 |
| 17463 | 24-Jul-02 | 08:50 | 0.15 | 0.220 | 120 | 43.30 | 0.050 | <1.21 | 60 | 0.146 | 368 | 638 | 1.27 | 8.4 | 0.280 | 13 | 7 | 2.56 |
| 16415 | 24-Jul-02 | 10:28 | 0.15 | <0.019 | 248 | 70.80 | <0.018 | 20.40 | 109 | 0.085 | 569 | 874 | 1.62 | 5.2 | 0.490 | 168 | 29 | 4.04 |
| 11062 | 25-Jul-02 | 08:16 | 0.08 | <0.019 | 90.0 | 4.27 | <0.018 | <1.21 | 68 | 0.055 | 353 | 590 | 0.36 | 3.0 | 0.110 | 23 | 5.25 | 2.40 |

Table L-3. Temperature, Conductivity, and pH from Intensive and 24-hour Surveys

| TCEQ Station | Dates | Temp Mean (C) | Temp Max (C) | Temp Min (C) | Cond Mean (uS/cm) | Cond Max (uS/cm) | Cond Min (uS/cm) | pH Mean (SU) | pH Max (SU) | pH Min (SU) |
|--------------|------------------|---------------|--------------|--------------|-------------------|------------------|------------------|--------------|-------------|-------------|
| 17463 | Aug. 22-23, 2001 | 27.2 | 28.7 | 26.1 | 1020 | 1030 | 1004 | 8.0 | 8.3 | 7.8 |
| 11062 | Aug. 23-24, 2001 | 27.2 | 27.9 | 26.4 | 1000 | 1000 | 999 | 7.6 | 7.6 | 7.5 |
| 17461 | Aug. 21-22, 2001 | 27.4 | 29.7 | 25.2 | 854 | 881 | 818 | 7.4 | 7.8 | 7.2 |
| 17462 | Aug. 21-22, 2001 | 26.6 | 28.9 | 25.0 | 740 | 751 | 730 | 8.0 | 8.2 | 7.8 |
| 17463 | Sep 18-19, 2001 | 24.3 | 25.2 | 23.3 | 720 | 736 | 703 | 7.9 | 7.9 | 7.8 |
| 11062 | Sep 18-19, 2001 | 24.1 | 24.8 | 23.5 | 898 | 899 | 897 | 7.6 | 7.6 | 7.5 |
| 17461 | Sep 18-19, 2001 | 24.8 | 27.5 | 22.7 | 846 | 861 | 829 | 7.6 | 7.8 | 7.5 |
| 17462 | Sep 19-20, 2001 | 23.3 | 24.8 | 22.2 | 767 | 777 | 760 | 8.1 | 8.2 | 8.0 |
| 16415 | May 2-3, 2002 | 18.9 | 20.2 | 17.3 | 1540 | 1580 | 1500 | 7.4 | 7.5 | 7.3 |
| 17463 | May 2-3, 2002 | 21.3 | 23.2 | 18.8 | 1320 | 1340 | 1290 | 8.0 | 8.0 | 7.9 |
| 11062 | May 2-3, 2002 | 21.0 | 22.8 | 18.9 | 1016 | 1024 | 970 | 8.0 | 8.0 | 7.9 |
| 17461 | May 1-2, 2002 | 25.3 | 30.4 | 21.4 | 972 | 982 | 951 | 7.9 | 8.1 | 7.8 |
| 17462 | May 1-2, 2002 | 24.0 | 28.8 | 21.4 | 900 | 906 | 897 | 8.0 | 8.1 | 7.9 |
| 16415 | June 3-4, 2002 | 22.3 | 22.9 | 21.8 | 1110 | 1260 | 930 | 7.2 | 7.3 | 7.1 |
| 17463 | June 3-4, 2002 | 27.3 | 29.6 | 25.6 | 1290 | 1300 | 1270 | 8.0 | 8.1 | 7.9 |
| 11062 | June 3-4, 2002 | 26.1 | 28.2 | 24.2 | 703 | 982 | 593 | 7.8 | 8.0 | 7.7 |
| 17461 | June 3-4, 2002 | 26.3 | 29.5 | 23.7 | 845 | 947 | 650 | 7.9 | 8.1 | 7.8 |
| 17462 | June 3-4, 2002 | 25.4 | 27.9 | 23.3 | 839 | 864 | 814 | 8.0 | 8.2 | 7.9 |
| 16415 | July 24-25, 2002 | 23.2 | 24.3 | 22.4 | 2030 | 2230 | 1880 | 7.4 | 7.5 | 7.3 |
| 17463 | July 24-25, 2002 | 26.5 | 29.1 | 24.7 | 1090 | 1100 | 1080 | 7.8 | 8.0 | 7.7 |
| 11062 | July 24-25, 2002 | 27.8 | 28.8 | 26.8 | 978 | 981 | 975 | 7.6 | 7.6 | 7.5 |
| 17461 | July 23-24, 2002 | 28.3 | 31.8 | 25.4 | 870 | 884 | 856 | 7.6 | 7.9 | 7.4 |
| 17462 | July 23-24, 2002 | 27.6 | 30.7 | 24.9 | 647 | 658 | 641 | 8.0 | 8.3 | 7.8 |