# DISSOLVED OXYGEN STUDY OF LOWER LAKE WISCONSIN 1996 - 1997

**VOLUME II**

OLIN CORPORATION WINCHESTER DIVISION
BADGER ARMY AMMUNITION PLANT
OCTOBER 30, 1997

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# APPENDIX C
## Continuous Monitoring Dissolved Oxygen and Temperature Data Tables

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The tables in this section contain the data that was collected by the continuous D.O. meter located at the WP&L dam. The data was recorded in two hour increments resulting in readings for 12 periods each day. The average, high and low dissolved oxygen value and the average, high and low temperature values were recorded for each period. A table is present for each month during which continuous data was collected. Tables are grouped as indicated above.

# APPENDIX C
## Continuous Monitoring Dissolved Oxygen and Temperature Data Tables

1. July, August, September 1996

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 15-Jul-96 | 1355 | 1555 | 7.907 | 12.55 | 6.8 | 24.28 | 24.88 | 22.44 |
| 15-Jul-96 | 1555 | 1755 | 7.555 | 8.2 | 7.2 | 24.35 | 25.1 | 24 |
| 15-Jul-96 | 1755 | 1955 | 7.505 | 7.8 | 7.26 | 23.99 | 24.1 | 23.9 |
| 15-Jul-96 | 1955 | 2155 | 7.351 | 8 | 7.1 | 23.94 | 24.1 | 23.8 |
| 15-Jul-96 | 2155 | 2355 | 7.763 | 8.1 | 7 | 24.19 | 24.4 | 23.8 |
| 16-Jul-96 | 2355 | 155 | 7.953 | 8.1 | 7.7 | 24.35 | 24.4 | 24.22 |
| 16-Jul-96 | 155 | 355 | 8.017 | 8.1 | 8 | 24.19 | 24.3 | 24 |
| 16-Jul-96 | 355 | 555 | 7.94 | 8 | 7.9 | 23.99 | 24.02 | 23.9 |
| 16-Jul-96 | 555 | 755 | 7.959 | 8.1 | 7.8 | 23.99 | 24 | 23.9 |
| 16-Jul-96 | 755 | 955 | 8.435 | 9.2 | 7.954 | 24.04 | 24.78 | 22.48 |
| 16-Jul-96 | 955 | 1155 | 9.032 | 9.3 | 8.5 | 24.39 | 24.6 | 24.1 |
| 16-Jul-96 | 1155 | 1355 | 8.828 | 9.74 | 8.4 | 24.19 | 24.74 | 24.02 |
| 16-Jul-96 | 1355 | 1555 | 8.805 | 9.48 | 8.36 | 24.32 | 24.84 | 24.1 |
| 16-Jul-96 | 1555 | 1755 | 8.435 | 8.8 | 8 | 24.08 | 24.46 | 23.9 |
| 16-Jul-96 | 1755 | 1955 | 7.938 | 8.6 | 6.9 | 24.01 | 24.2 | 23.8 |
| 16-Jul-96 | 1955 | 2155 | 8.351 | 8.7 | 8 | 24.16 | 24.3 | 24.1 |
| 16-Jul-96 | 2155 | 2355 | 8.075 | 8.3 | 7.8 | 24.26 | 24.3 | 24.2 |
| 17-Jul-96 | 2355 | 155 | 8.243 | 8.4 | 7.96 | 24.36 | 24.4 | 24.2 |
| 17-Jul-96 | 155 | 355 | 8.304 | 8.4 | 8.12 | 24.24 | 24.3 | 24.2 |
| 17-Jul-96 | 355 | 555 | 8.208 | 8.4 | 8.1 | 24.15 | 24.2 | 24.1 |
| 17-Jul-96 | 555 | 755 | 8.202 | 8.704 | 8.1 | 24.09 | 24.2 | 22.86 |
| 17-Jul-96 | 755 | 955 | 8.253 | 8.4 | 8.2 | 24.2 | 24.2 | 24.2 |
| 17-Jul-96 | 955 | 1155 | 8.585 | 10.7 | 8.1 | 24.28 | 24.4 | 24.2 |
| 17-Jul-96 | 1155 | 1355 | 8.329 | 8.4 | 8.2 | 24.3 | 24.3 | 24.3 |
| 17-Jul-96 | 1355 | 1555 | 8.489 | 8.6 | 8.4 | 24.39 | 24.5 | 24.3 |
| 17-Jul-96 | 1555 | 1755 | 8.529 | 8.88 | 8.3 | 24.46 | 24.6 | 24.4 |
| 17-Jul-96 | 1755 | 1955 | 9.236 | 9.4 | 8.8 | 24.6 | 24.7 | 27.5 |
| 17-Jul-96 | 1955 | 2155 | 9.08 | 9.3 | 8.12 | 24.51 | 24.6 | 24.3 |
| 17-Jul-96 | 2155 | 2355 | 9.04 | 9.2 | 8.9 | 24.53 | 24.6 | 24.5 |
| 18-Jul-96 | 2355 | 155 | 8.987 | 9.2 | 8.7 | 24.5 | 24.5 | 24.4 |
| 18-Jul-96 | 155 | 355 | 8.524 | 8.7 | 8.3 | 24.42 | 24.5 | 24.36 |
| 18-Jul-96 | 355 | 555 | 8.354 | 8.5 | 8 | 24.39 | 24.4 | 24.3 |
| 18-Jul-96 | 555 | 755 | 8.244 | 8.3 | 8 | 24.35 | 24.4 | 24.3 |
| 18-Jul-96 | 755 | 955 | 8.717 | 10.27 | 7.5 | 24.2 | 24.5 | 22.1 |
| 18-Jul-96 | 955 | 1155 | 10.55 | 12.26 | 9.6 | 24.64 | 24.9 | 24.5 |
| 18-Jul-96 | 1155 | 1355 | 9.856 | 10.94 | 9.6 | 24.57 | 24.8 | 24.5 |
| 18-Jul-96 | 1355 | 1555 | 9.592 | 9.9 | 9.3 | 24.58 | 24.7 | 24.5 |
| 18-Jul-96 | 1555 | 1755 | 8.831 | 9.4 | 7.8 | 24.43 | 24.6 | 24.2 |
| 18-Jul-96 | 1755 | 1955 | 8.561 | 9 | 7.82 | 24.47 | 24.6 | 24.26 |
| 18-Jul-96 | 1955 | 2155 | 8.537 | 9.1 | 8.2 | 24.53 | 24.7 | 24.4 |
| 18-Jul-96 | 2155 | 2355 | 9.402 | 9.8 | 9 | 24.78 | 24.9 | 24.7 |
| 19-Jul-96 | 2355 | 155 | 9.662 | 9.9 | 9.42 | 24.87 | 24.9 | 24.8 |
| 19-Jul-96 | 155 | 355 | 9.258 | 9.6 | 8.8 | 24.75 | 24.9 | 24.7 |
| 19-Jul-96 | 355 | 555 | 8.979 | 9.2 | 8.84 | 24.7 | 24.7 | 24.7 |
| 19-Jul-96 | 555 | 755 | 8.888 | 9 | 8.8 | 24.67 | 24.7 | 24.6 |
| 19-Jul-96 | 755 | 955 | 8.853 | 9.1 | 8.6 | 24.6 | 24.6 | 24.6 |
| 19-Jul-96 | 955 | 1155 | 8.444 | 8.7 | 8.2 | 24.57 | 24.6 | 24.5 |
| 19-Jul-96 | 1155 | 1355 | 8.762 | 9.7 | 8.4 | 24.62 | 24.7 | 24.6 |
| 19-Jul-96 | 1355 | 1555 | 9.315 | 10 | 8.6 | 24.64 | 24.7 | 24.6 |
| 19-Jul-96 | 1555 | 1755 | 9.686 | 9.9 | 9.4 | 24.76 | 24.8 | 24.7 |
| 19-Jul-96 | 1755 | 1955 | 9.441 | 9.7 | 8.9 | 24.67 | 24.7 | 24.6 |
| 19-Jul-96 | 1955 | 2155 | 9.052 | 9.3 | 8.7 | 24.59 | 24.6 | 24.5 |
| 19-Jul-96 | 2155 | 2355 | 8.684 | 8.8 | 8.5 | 24.49 | 24.58 | 24.4 |
| 20-Jul-96 | 2355 | 155 | 8.1 | 8.5 | 7.8 | 24.37 | 24.44 | 24.3 |
| 20-Jul-96 | 155 | 355 | 7.291 | 7.8 | 7.1 | 24.2 | 24.3 | 24.1 |
| 20-Jul-96 | 355 | 555 | 7.08 | 7.2 | 7 | 24.11 | 24.2 | 24 |
| 20-Jul-96 | 555 | 755 | 7.116 | 7.3 | 7 | 24.01 | 24.1 | 23.9 |
| 20-Jul-96 | 755 | 955 | 6.816 | 7.1 | 6.6 | 23.94 | 24 | 23.9 |
| 20-Jul-96 | 955 | 1155 | 6.725 | 7.08 | 6.6 | 23.96 | 24.1 | 23.9 |
| 20-Jul-96 | 1155 | 1355 | 7.044 | 7.9 | 6.7 | 24.18 | 24.5 | 24 |
| 20-Jul-96 | 1355 | 1555 | 8.83 | 9.5 | 7.9 | 24.8 | 25 | 24.5 |
| 20-Jul-96 | 1555 | 1755 | 9.274 | 9.6 | 9.1 | 24.84 | 25 | 24.78 |
| 20-Jul-96 | 1755 | 1955 | 9.195 | 9.4 | 8.82 | 24.66 | 24.8 | 24.52 |
| 20-Jul-96 | 1955 | 2155 | 8.593 | 9.1 | 8.3 | 24.53 | 24.6 | 24.4 |
| 20-Jul-96 | 2155 | 2355 | 8.195 | 8.5 | 7.8 | 24.35 | 24.4 | 24.2 |
| 21-Jul-96 | 2355 | 155 | 7.212 | 7.9 | 6.7 | 24.09 | 24.26 | 24 |
| 21-Jul-96 | 155 | 355 | 6.568 | 6.8 | 6.24 | 23.92 | 24 | 23.86 |
| 21-Jul-96 | 355 | 555 | 6.314 | 6.5 | 6.1 | 23.84 | 23.9 | 23.7 |
| 21-Jul-96 | 555 | 632 | 6.195 | 6.2 | 6.1 | 23.73 | 23.8 | 23.7 |
| 22-Jul-96 | 914 | 955 | 7.672 | 11.3 | 3.58 | 23.51 | 23.9 | 22.1 |
| 22-Jul-96 | 955 | 1155 | 6.534 | 6.9 | 6.2 | 23.79 | 23.8 | 23.7 |
| 22-Jul-96 | 1155 | 1355 | 6.667 | 7.6 | 6 | 23.74 | 24.04 | 23.7 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 22-Jul-96 | 1355 | 1555 | 7.435 | 8.2 | 6.9 | 24.1 | 24.54 | 23.8 |
| 22-Jul-96 | 1555 | 1755 | 7.412 | 7.7 | 7.2 | 23.87 | 24 | 23.8 |
| 22-Jul-96 | 1755 | 1955 | 8.117 | 9.2 | 7.4 | 23.99 | 24.1 | 23.9 |
| 22-Jul-96 | 1955 | 2155 | 9.358 | 10.1 | 8.84 | 24.09 | 24.28 | 23.96 |
| 22-Jul-96 | 2155 | 2355 | 9.389 | 9.5 | 9.16 | 24.02 | 24.1 | 23.9 |
| 23-Jul-96 | 2355 | 155 | 8.846 | 9.4 | 8.56 | 23.8 | 24 | 23.7 |
| 23-Jul-96 | 155 | 355 | 8.182 | 8.8 | 7.6 | 23.63 | 23.8 | 23.52 |
| 23-Jul-96 | 355 | 555 | 8.27 | 8.6 | 8.12 | 23.6 | 23.7 | 23.6 |
| 23-Jul-96 | 555 | 755 | 7.983 | 8.34 | 7.44 | 23.51 | 23.6 | 23.5 |
| 23-Jul-96 | 755 | 955 | 8.984 | 11.94 | 8.3 | 23.53 | 24.2 | 20.5 |
| 23-Jul-96 | 955 | 1155 | 10.4 | 11.2 | 9.26 | 24.2 | 24.44 | 23.88 |
| 23-Jul-96 | 1155 | 1355 | 10.31 | 10.7 | 9.38 | 24.44 | 24.8 | 24.1 |
| 23-Jul-96 | 1355 | 1555 | 10.4 | 11.5 | 8.76 | 24.41 | 24.8 | 23.9 |
| 23-Jul-96 | 1555 | 1755 | 9.846 | 10.88 | 8.62 | 24.29 | 24.7 | 23.84 |
| 23-Jul-96 | 1755 | 1955 | 9.398 | 10.16 | 8.8 | 23.95 | 24.1 | 23.8 |
| 23-Jul-96 | 1955 | 2155 | 9.108 | 9.4 | 8.6 | 23.83 | 23.9 | 23.8 |
| 23-Jul-96 | 2155 | 2355 | 8.968 | 9.1 | 8.7 | 23.79 | 23.8 | 23.7 |
| 24-Jul-96 | 2355 | 155 | 8.73 | 8.92 | 8.4 | 23.74 | 23.8 | 23.7 |
| 24-Jul-96 | 155 | 355 | 8.491 | 8.6 | 8.3 | 23.71 | 23.8 | 23.7 |
| 24-Jul-96 | 355 | 555 | 8.267 | 8.52 | 8 | 23.6 | 23.7 | 23.5 |
| 24-Jul-96 | 555 | 755 | 7.94 | 8.648 | 7.3 | 23.35 | 23.5 | 19.96 |
| 24-Jul-96 | 755 | 955 | 8.025 | 8.4 | 7.7 | 23.51 | 23.6 | 23.5 |
| 24-Jul-96 | 955 | 1155 | 8.599 | 10.22 | 7.9 | 23.78 | 24.1 | 23.5 |
| 24-Jul-96 | 1155 | 1355 | 11.05 | 13.46 | 9.72 | 24.09 | 24.9 | 23.74 |
| 24-Jul-96 | 1355 | 1555 | 10.4 | 11.66 | 8.62 | 24.36 | 24.78 | 23.8 |
| 24-Jul-96 | 1555 | 1755 | 12.37 | 13.4 | 10.64 | 24.8 | 24.1 | 24.3 |
| 24-Jul-96 | 1755 | 1955 | 13.51 | 13.8 | 13.04 | 24.93 | 25.02 | 24.8 |
| 24-Jul-96 | 1955 | 2199 | 12.89 | 13.7 | 12 | 24.76 | 24.9 | 24.5 |
| 24-Jul-96 | 2199 | 2399 | 9.423 | 12.3 | 8.2 | 23.93 | 24.66 | 23.6 |
| 25-Jul-96 | 2355 | 155 | 10.81 | 11.3 | 10.1 | 24.01 | 24.1 | 23.8 |
| 25-Jul-96 | 155 | 355 | 9.074 | 10.5 | 7.46 | 23.61 | 23.8 | 23.4 |
| 25-Jul-96 | 355 | 555 | 7.968 | 8.2 | 7.2 | 23.4 | 23.5 | 23.3 |
| 25-Jul-96 | 755 | 955 | 10.25 | 10.7 | 9.06 | 23.27 | 23.3 | 23.2 |
| 25-Jul-96 | 955 | 1155 | 10.28 | 11.2 | 8.9 | 23.26 | 23.4 | 23.2 |
| 25-Jul-96 | 1155 | 1355 | 11.88 | 13.18 | 8.3 | 23.4 | 24.2 | 20.63 |
| 25-Jul-96 | 1355 | 1555 | 9.77 | 10.3 | 8.62 | 24.18 | 24.5 | 22.94 |
| 25-Jul-96 | 1555 | 1755 | 11.26 | 12 | 10.2 | 24.49 | 24.8 | 24.2 |
| 25-Jul-96 | 1755 | 1955 | 11.01 | 11.8 | 10.1 | 24.18 | 24.3 | 24 |
| 25-Jul-96 | 1955 | 2155 | 10.34 | 11 | 9.8 | 23.97 | 24 | 23.9 |
| 25-Jul-96 | 2155 | 2355 | 10.27 | 10.9 | 10 | 23.9 | 23.9 | 23.88 |
| 26-Jul-96 | 2355 | 155 | 11.31 | 11.6 | 10.8 | 23.9 | 23.96 | 23.9 |
| 26-Jul-96 | 155 | 355 | 10.93 | 11.6 | 10.34 | 23.79 | 23.9 | 23.7 |
| 26-Jul-96 | 355 | 555 | 9.95 | 10.4 | 9.7 | 23.57 | 23.7 | 23.5 |
| 26-Jul-96 | 555 | 755 | 9.427 | 9.8 | 9.02 | 23.41 | 23.5 | 23.4 |
| 26-Jul-96 | 755 | 955 | 9.432 | 10.08 | 8.7 | 23.49 | 23.6 | 23.4 |
| 26-Jul-96 | 955 | 1155 | 12.05 | 13.2 | 9.8 | 24.14 | 24.62 | 23.5 |
| 26-Jul-96 | 1155 | 1355 | 13.78 | 18.18 | 11.1 | 24.96 | 28.08 | 23.84 |
| 26-Jul-96 | 1355 | 1555 | 15.05 | 18.94 | 10.36 | 26 | 28.62 | 23.62 |
| 26-Jul-96 | 1555 | 1755 | 14 | 18.8 | 10.52 | 24.58 | 26.72 | 23.6 |
| 26-Jul-96 | 1755 | 1955 | 19.04 | 20.52 | 17.9 | 26.17 | 26.76 | 25.66 |
| 26-Jul-96 | 1955 | 2155 | 17.99 | 20 | 16.6 | 26.09 | 26.3 | 25.8 |
| 26-Jul-96 | 2155 | 2355 | 14.72 | 16.6 | 13.9 | 25.88 | 26 | 25.8 |
| 27-Jul-96 | 2355 | 155 | 13.91 | 14.58 | 13.5 | 25.29 | 25.9 | 25.1 |
| 27-Jul-96 | 155 | 355 | 12.47 | 13.6 | 11.6 | 24.6 | 25.1 | 24.2 |
| 27-Jul-96 | 355 | 555 | 11.22 | 11.6 | 10.8 | 24.09 | 24.2 | 23.9 |
| 27-Jul-96 | 555 | 755 | 10.96 | 11.66 | 10.5 | 23.85 | 23.9 | 23.8 |
| 27-Jul-96 | 755 | 955 | 12.26 | 13.1 | 11.3 | 24 | 24.1 | 23.8 |
| 27-Jul-96 | 955 | 1155 | 12.99 | 14.32 | 10.8 | 24.31 | 24.7 | 23.82 |
| 27-Jul-96 | 1155 | 1355 | 13.68 | 15.4 | 10.48 | 24.65 | 25.1 | 23.88 |
| 27-Jul-96 | 1355 | 1555 | 11.21 | 14.4 | 8.76 | 24.11 | 24.86 | 23.5 |
| 27-Jul-96 | 1555 | 1755 | 9.712 | 11.52 | 8.7 | 23.67 | 24 | 23.46 |
| 27-Jul-96 | 1755 | 1955 | 11.11 | 12.6 | 9.4 | 23.91 | 24.02 | 23.7 |
| 27-Jul-96 | 1955 | 2155 | 10.99 | 12.4 | 9.86 | 23.87 | 24 | 23.7 |
| 27-Jul-96 | 2155 | 2355 | 11.1 | 11.3 | 10.8 | 23.87 | 23.9 | 23.8 |
| 28-Jul-96 | 2355 | 155 | 10.19 | 10.8 | 8.9 | 23.7 | 23.8 | 23.6 |
| 28-Jul-96 | 155 | 355 | 8.992 | 9.24 | 8.8 | 23.59 | 23.6 | 23.5 |
| 28-Jul-96 | 355 | 555 | 8.671 | 9.1 | 8.3 | 23.5 | 23.58 | 23.5 |
| 28-Jul-96 | 555 | 755 | 8.557 | 8.86 | 8.3 | 23.57 | 23.64 | 23.5 |
| 28-Jul-96 | 755 | 955 | 9.095 | 9.6 | 8.72 | 23.66 | 23.7 | 23.6 |
| 28-Jul-96 | 955 | 1155 | 9.53 | 9.8 | 8.9 | 23.7 | 23.7 | 23.6 |
| 28-Jul-96 | 1155 | 1355 | 10.23 | 11.1 | 9.4 | 24 | 24.64 | 23.7 |
| 28-Jul-96 | 1355 | 1555 | 10.17 | 11.86 | 8.5 | 24.04 | 24.6 | 23.64 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 28-Jul-96 | 1555 | 1755 | 10.68 | 11.8 | 8.58 | 24.24 | 24.64 | 23.7 |
| 28-Jul-96 | 1755 | 1955 | 10.55 | 11.38 | 9.94 | 24.09 | 24.22 | 23.92 |
| 28-Jul-96 | 1955 | 2155 | 9.79 | 10.5 | 9.4 | 23.97 | 24 | 23.9 |
| 28-Jul-96 | 2155 | 2355 | 9.411 | 9.5 | 9.3 | 23.9 | 23.92 | 23.9 |
| 29-Jul-96 | 2355 | 155 | 9.608 | 10 | 9.4 | 23.9 | 24 | 23.9 |
| 29-Jul-96 | 155 | 355 | 9.196 | 9.7 | 8.9 | 23.88 | 23.9 | 23.8 |
| 29-Jul-96 | 355 | 555 | 8.984 | 9.1 | 8.8 | 23.79 | 23.8 | 23.7 |
| 29-Jul-96 | 555 | 755 | 8.702 | 8.9 | 8.26 | 23.61 | 23.7 | 20.79 |
| 29-Jul-96 | 755 | 955 | 8.996 | 9.975 | 8.7 | 23.69 | 23.7 | 23.6 |
| 29-Jul-96 | 955 | 1155 | 9.945 | 10.7 | 9.2 | 23.96 | 24.36 | 23.7 |
| 29-Jul-96 | 1155 | 1355 | 12.37 | 13.7 | 10.24 | 24.68 | 25 | 24.2 |
| 29-Jul-96 | 1355 | 1555 | 11.4 | 12.5 | 8.92 | 24.71 | 25.32 | 23.9 |
| 29-Jul-96 | 1555 | 1755 | 10.77 | 13.5 | 8.9 | 24.53 | 25.7 | 23.8 |
| 29-Jul-96 | 1755 | 1955 | 10.2 | 13.5 | 8.6 | 24.38 | 25.7 | 23.78 |
| 29-Jul-96 | 1955 | 2155 | 12.49 | 13.2 | 9.64 | 25.16 | 25.4 | 24.28 |
| 29-Jul-96 | 2155 | 2355 | 11.6 | 12.4 | 9.62 | 24.85 | 25.1 | 24.24 |
| 30-Jul-96 | 2355 | 155 | 11.16 | 11.8 | 9.44 | 24.46 | 24.9 | 24.02 |
| 30-Jul-96 | 155 | 355 | 10.14 | 11.3 | 8.88 | 23.9 | 24.2 | 23.7 |
| 30-Jul-96 | 355 | 555 | 8.594 | 9.1 | 8.12 | 23.6 | 23.7 | 23.5 |
| 30-Jul-96 | 555 | 755 | 8.065 | 8.26 | 7.9 | 23.51 | 23.6 | 23.48 |
| 30-Jul-96 | 755 | 955 | 8.219 | 9.3 | 7.5 | 23.21 | 23.7 | 18.18 |
| 30-Jul-96 | 955 | 1155 | 9.653 | 11.1 | 8.9 | 24.05 | 24.42 | 23.7 |
| 30-Jul-96 | 1155 | 1355 | 10.71 | 11.92 | 8.66 | 24.3 | 24.88 | 23.78 |
| 30-Jul-96 | 1355 | 1555 | 12.47 | 13.7 | 10.06 | 24.96 | 25.96 | 23.9 |
| 30-Jul-96 | 1555 | 1755 | 13.67 | 14.1 | 13.3 | 25.16 | 25.3 | 24.9 |
| 30-Jul-96 | 1755 | 1955 | 12.61 | 13.3 | 11.7 | 24.68 | 24.9 | 24.5 |
| 30-Jul-96 | 1955 | 2155 | 11.89 | 12.34 | 11.5 | 24.51 | 24.6 | 24.4 |
| 30-Jul-96 | 2155 | 2355 | 10.76 | 11.5 | 10.1 | 24.32 | 24.4 | 24.12 |
| 31-Jul-96 | 2355 | 155 | 9.24 | 10.1 | 8.7 | 23.9 | 24.1 | 23.7 |
| 31-Jul-96 | 155 | 355 | 8.492 | 8.7 | 8.2 | 23.66 | 23.8 | 23.52 |
| 31-Jul-96 | 355 | 555 | 7.978 | 8.3 | 7.7 | 23.47 | 23.6 | 23.4 |
| 31-Jul-96 | 555 | 755 | 7.622 | 8.722 | 7.34 | 23.22 | 23.4 | 20.27 |
| 31-Jul-96 | 755 | 955 | 7.14 | 7.6 | 6.94 | 23.24 | 23.3 | 23.2 |
| 31-Jul-96 | 955 | 1155 | 6.65 | 6.9 | 6.4 | 23.13 | 23.2 | 23.1 |
| 31-Jul-96 | 1155 | 1355 | 6.95 | 7.3 | 6.7 | 23.17 | 23.2 | 23.1 |
| 31-Jul-96 | 1355 | 1555 | 6.952 | 7.2 | 6.7 | 23.17 | 23.3 | 23.1 |
| 31-Jul-96 | 1555 | 1755 | 7 | 7.2 | 6.7 | 23.19 | 23.3 | 23.1 |
| 31-Jul-96 | 1755 | 1955 | 7.029 | 7.4 | 6.9 | 23.06 | 23.2 | 23.1 |
| 31-Jul-96 | 1955 | 2155 | 7.043 | 7.3 | 6.8 | 23.06 | 23.2 | 23.1 |
| 31-Jul-96 | 2155 | 2355 | 6.54 | 6.9 | 6.2 | 23.06 | 23.1 | 23 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 1-Aug-96 | 2355 | 155 | 5.84 | 6.4 | 5.4 | 23 | 23 | 23 |
| 1-Aug-96 | 155 | 355 | 5.944 | 6.3 | 5.46 | 23 | 23 | 22.9 |
| 1-Aug-96 | 355 | 555 | 5.286 | 5.7 | 4.9 | 22.93 | 23 | 22.9 |
| 1-Aug-96 | 555 | 755 | 5.699 | 12.77 | 4.7 | 22.47 | 22.9 | 18.27 |
| 1-Aug-96 | 755 | 955 | 5.211 | 5.58 | 4.78 | 23 | 23.1 | 22.9 |
| 1-Aug-96 | 955 | 1155 | 5.854 | 6.4 | 5.22 | 23.72 | 24.32 | 23.1 |
| 1-Aug-96 | 1155 | 1355 | 7.099 | 7.6 | 6.42 | 24.41 | 24.8 | 23.84 |
| 1-Aug-96 | 1355 | 1555 | 7.933 | 8.38 | 7.5 | 24.84 | 25.16 | 24.58 |
| 1-Aug-96 | 1555 | 1755 | 8.985 | 9.7 | 8.02 | 25.15 | 25.4 | 24.6 |
| 1-Aug-96 | 1755 | 1955 | 9.607 | 9.86 | 9.1 | 25.1 | 25.4 | 24.8 |
| 1-Aug-96 | 1955 | 2155 | 9.926 | 10.4 | 9 | 24.85 | 25 | 24.6 |
| 1-Aug-96 | 2155 | 2355 | 9.958 | 10.4 | 9.4 | 24.45 | 24.8 | 24.2 |
| 2-Aug-96 | 2355 | 155 | 8.762 | 9.4 | 8.2 | 24.03 | 24.3 | 23.8 |
| 2-Aug-96 | 155 | 355 | 8.113 | 8.46 | 7.9 | 23.73 | 23.84 | 23.6 |
| 2-Aug-96 | 355 | 555 | 7.461 | 7.96 | 7 | 23.45 | 23.6 | 23.4 |
| 2-Aug-96 | 555 | 755 | 7.432 | 7.66 | 7.2 | 23.29 | 23.4 | 23.2 |
| 2-Aug-96 | 755 | 955 | 8.158 | 8.8 | 7.4 | 23.43 | 23.9 | 23.2 |
| 2-Aug-96 | 955 | 1155 | 9.173 | 10.4 | 8.2 | 24.32 | 25.42 | 23.6 |
| 2-Aug-96 | 1155 | 1355 | 10.69 | 11.1 | 10.32 | 25.72 | 26.3 | 24.68 |
| 2-Aug-96 | 1355 | 1555 | 11.5 | 12.28 | 10.9 | 26.84 | 27.8 | 26.14 |
| 2-Aug-96 | 1555 | 1755 | 12.88 | 13.4 | 12.08 | 27.08 | 27.96 | 26.52 |
| 2-Aug-96 | 1755 | 1955 | 13.06 | 13.4 | 12.7 | 26.73 | 27.16 | 26.3 |
| 2-Aug-96 | 1955 | 2155 | 12.53 | 12.86 | 11.98 | 25.94 | 26.32 | 25.6 |
| 2-Aug-96 | 2155 | 2355 | 12.56 | 12.9 | 12 | 25.57 | 25.8 | 25.4 |
| 3-Aug-96 | 2355 | 155 | 11.96 | 12.2 | 11.6 | 25.36 | 25.5 | 25.2 |
| 3-Aug-96 | 155 | 355 | 11.32 | 11.64 | 10.92 | 24.92 | 25.2 | 24.7 |
| 3-Aug-96 | 355 | 555 | 10.69 | 11.02 | 9.9 | 24.57 | 24.7 | 24.4 |
| 3-Aug-96 | 555 | 755 | 10.95 | 11.04 | 10.8 | 24.48 | 24.5 | 24.3 |
| 3-Aug-96 | 755 | 955 | 11.04 | 11.8 | 10.7 | 24.46 | 24.9 | 24.3 |
| 3-Aug-96 | 955 | 1155 | 12.04 | 12.6 | 11.7 | 25.44 | 26.36 | 24.9 |
| 3-Aug-96 | 1155 | 1355 | 12.43 | 12.76 | 11.54 | 25.98 | 26.6 | 24.74 |
| 3-Aug-96 | 1355 | 1555 | 12.57 | 12.8 | 12.18 | 26.5 | 26.92 | 25.82 |
| 3-Aug-96 | 1555 | 1755 | 12.69 | 12.9 | 12.42 | 26.26 | 26.8 | 25.76 |
| 3-Aug-96 | 1755 | 1955 | 12.18 | 12.7 | 11.1 | 25.7 | 26.16 | 24.76 |
| 3-Aug-96 | 1955 | 2155 | 11.68 | 12.1 | 11.24 | 25.27 | 25.56 | 24.9 |
| 3-Aug-96 | 2155 | 2355 | 11.62 | 11.8 | 11.32 | 25.24 | 25.3 | 25.1 |
| 4-Aug-96 | 2355 | 155 | 11.24 | 11.5 | 11 | 25 | 25.2 | 24.9 |
| 4-Aug-96 | 155 | 355 | 11 | 11.2 | 10.9 | 24.88 | 24.9 | 24.8 |
| 4-Aug-96 | 355 | 555 | 10.66 | 10.9 | 10.4 | 24.8 | 24.86 | 24.8 |
| 4-Aug-96 | 555 | 755 | 10.47 | 10.7 | 10.3 | 24.81 | 24.9 | 24.72 |
| 4-Aug-96 | 755 | 955 | 10.79 | 11 | 10.66 | 24.95 | 25.1 | 24.9 |
| 4-Aug-96 | 955 | 1155 | 11.08 | 11.36 | 10.62 | 25.19 | 25.32 | 25.02 |
| 4-Aug-96 | 1155 | 1355 | 10.17 | 10.98 | 9.22 | 24.93 | 25.2 | 24.62 |
| 4-Aug-96 | 1355 | 1555 | 8.873 | 9.38 | 7.62 | 24.54 | 24.8 | 23.86 |
| 4-Aug-96 | 1555 | 1755 | 8.15 | 9.1 | 7 | 24.22 | 24.6 | 23.64 |
| 4-Aug-96 | 1755 | 1955 | 7.238 | 9.06 | 5.3 | 23.82 | 24.6 | 23.02 |
| 4-Aug-96 | 1955 | 2155 | 6.852 | 7.5 | 5.62 | 23.82 | 24.1 | 23.1 |
| 4-Aug-96 | 2155 | 2355 | 7.682 | 8 | 7.2 | 24.19 | 24.2 | 24.1 |
| 5-Aug-96 | 2355 | 155 | 7.667 | 7.8 | 7.48 | 24.22 | 24.3 | 24.1 |
| 5-Aug-96 | 155 | 355 | 7.25 | 7.74 | 6.8 | 24.08 | 24.2 | 23.9 |
| 5-Aug-96 | 355 | 555 | 6.809 | 7 | 6.5 | 23.94 | 24 | 23.8 |
| 5-Aug-96 | 555 | 755 | 7.536 | 9.4 | 5.858 | 24.05 | 24.2 | 22.96 |
| 5-Aug-96 | 755 | 955 | 9.146 | 9.36 | 8.96 | 24.37 | 24.5 | 24.2 |
| 5-Aug-96 | 955 | 1155 | 8.651 | 9.38 | 7.74 | 24.24 | 24.5 | 23.92 |
| 5-Aug-96 | 1155 | 1355 | 7.711 | 8 | 7.32 | 23.97 | 24.1 | 23.8 |
| 5-Aug-96 | 1355 | 1555 | 7.484 | 8.08 | 6.56 | 23.92 | 24.14 | 23.7 |
| 5-Aug-96 | 1555 | 1755 | 7.535 | 8.3 | 6.4 | 24.05 | 24.4 | 23.5 |
| 5-Aug-96 | 1755 | 1955 | 7.077 | 7.6 | 6.2 | 23.97 | 24.2 | 23.7 |
| 5-Aug-96 | 1955 | 2155 | 7.484 | 7.8 | 6.86 | 24.24 | 24.4 | 24 |
| 5-Aug-96 | 2155 | 2355 | 7.707 | 7.9 | 7.54 | 24.48 | 24.6 | 24.36 |
| 6-Aug-96 | 2355 | 155 | 7.781 | 7.9 | 7.6 | 24.6 | 24.6 | 24.6 |
| 6-Aug-96 | 155 | 355 | 7.639 | 7.8 | 7.5 | 24.6 | 24.6 | 24.5 |
| 6-Aug-96 | 355 | 555 | 7.522 | 7.6 | 7.4 | 24.6 | 24.6 | 24.6 |
| 6-Aug-96 | 555 | 755 | 7.435 | 7.5 | 7.4 | 24.6 | 24.6 | 24.6 |
| 6-Aug-96 | 755 | 955 | 7.738 | 8.5 | 5.722 | 25.07 | 28.81 | 24.53 |
| 6-Aug-96 | 955 | 1155 | 8.006 | 8.2 | 7.62 | 24.78 | 24.9 | 24.7 |
| 6-Aug-96 | 1155 | 1355 | 7.633 | 8.1 | 7.4 | 24.74 | 24.8 | 24.6 |
| 6-Aug-96 | 1355 | 1555 | 7.463 | 7.8 | 6.72 | 24.75 | 24.9 | 24.5 |
| 6-Aug-96 | 1555 | 1755 | 7.132 | 7.6 | 6.7 | 24.65 | 24.8 | 24.5 |
| 6-Aug-96 | 1755 | 1955 | 6.794 | 7.1 | 6.62 | 24.57 | 24.7 | 24.5 |
| 6-Aug-96 | 1955 | 2155 | 6.925 | 7.2 | 6.7 | 24.7 | 24.9 | 24.54 |
| 6-Aug-96 | 2155 | 2355 | 7.389 | 7.6 | 7.2 | 25.03 | 25.1 | 24.9 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 7-Aug-96 | 2355 | 155 | 7.147 | 7.38 | 6.94 | 24.98 | 25.08 | 24.88 |
| 7-Aug-96 | 355 | 555 | 6.272 | 6.7 | 5.5 | 24.71 | 24.9 | 24.4 |
| 7-Aug-96 | 555 | 755 | 6.764 | 8.32 | 6.4 | 24.78 | 25 | 22.6 |
| 7-Aug-96 | 755 | 955 | 8.175 | 8.44 | 7.7 | 25.2 | 25.4 | 25 |
| 7-Aug-96 | 955 | 1155 | 7.476 | 8.3 | 7.2 | 25.13 | 25.34 | 25 |
| 7-Aug-96 | 1155 | 1355 | 7.298 | 8.48 | 6.92 | 25.14 | 25.88 | 24.98 |
| 7-Aug-96 | 1355 | 1555 | 8.448 | 9.24 | 7.48 | 25.77 | 26.32 | 25.14 |
| 7-Aug-96 | 1555 | 1755 | 7.672 | 9.4 | 6.3 | 25.36 | 26.2 | 24.8 |
| 7-Aug-96 | 1755 | 1955 | 8.771 | 9.3 | 8.4 | 25.72 | 26.3 | 25.5 |
| 7-Aug-96 | 1955 | 2155 | 9.261 | 9.5 | 8.94 | 25.96 | 26.1 | 25.8 |
| 7-Aug-96 | 2155 | 2355 | 8.922 | 9.2 | 8.7 | 25.76 | 25.9 | 25.66 |
| 8-Aug-96 | 2355 | 155 | 8.434 | 8.9 | 7.3 | 25.55 | 25.7 | 25.3 |
| 8-Aug-96 | 155 | 355 | 7.336 | 7.94 | 6.4 | 25.26 | 25.4 | 25.04 |
| 8-Aug-96 | 355 | 555 | 7.433 | 7.6 | 7.14 | 25.19 | 25.3 | 25.1 |
| 8-Aug-96 | 555 | 755 | 7.235 | 9.22 | 6.9 | 24.82 | 25.14 | 20.24 |
| 8-Aug-96 | 755 | 955 | 7.569 | 7.9 | 7.2 | 25.18 | 25.3 | 25.02 |
| 8-Aug-96 | 955 | 1155 | 8.104 | 8.6 | 7.54 | 25.52 | 25.7 | 25.3 |
| 8-Aug-96 | 1155 | 1355 | 8.746 | 9.5 | 8.04 | 25.93 | 26.4 | 25.6 |
| 8-Aug-96 | 1355 | 1555 | 10.03 | 10.3 | 9.56 | 26.66 | 26.94 | 26.3 |
| 8-Aug-96 | 1555 | 1755 | 9.768 | 10.2 | 9.32 | 26.35 | 26.68 | 26.1 |
| 8-Aug-96 | 1755 | 1955 | 9.616 | 10 | 9.1 | 26.04 | 26.3 | 25.8 |
| 8-Aug-96 | 1955 | 2155 | 9.517 | 10 | 9.2 | 25.93 | 26.1 | 25.8 |
| 8-Aug-96 | 2155 | 2355 | 9.898 | 10.1 | 9.72 | 26.1 | 26.2 | 26 |
| 9-Aug-96 | 2355 | 155 | 9.633 | 10.04 | 9.2 | 26.09 | 26.2 | 25.86 |
| 9-Aug-96 | 155 | 355 | 9.006 | 9.4 | 8.66 | 25.77 | 25.9 | 25.7 |
| 9-Aug-96 | 355 | 555 | 8.512 | 8.8 | 8.24 | 25.62 | 25.7 | 25.5 |
| 9-Aug-96 | 555 | 755 | 7.903 | 8.3 | 7.6 | 25.4 | 25.5 | 25.3 |
| 9-Aug-96 | 755 | 955 | 7.961 | 8.5 | 7.68 | 25.39 | 25.6 | 25.3 |
| 9-Aug-96 | 955 | 1155 | 8.698 | 9.3 | 8.2 | 25.9 | 26.46 | 25.58 |
| 9-Aug-96 | 1155 | 1355 | 9.036 | 9.8 | 8.4 | 26.18 | 26.5 | 25.9 |
| 9-Aug-96 | 1355 | 1555 | 9.884 | 10.1 | 9.3 | 26.48 | 26.8 | 26.2 |
| 9-Aug-96 | 1555 | 1755 | 10.76 | 11.5 | 9.74 | 26.85 | 27.2 | 26.3 |
| 9-Aug-96 | 1755 | 1955 | 11.6 | 12 | 11 | 26.86 | 27 | 26.7 |
| 9-Aug-96 | 1955 | 2155 | 11.05 | 11.66 | 10.5 | 26.6 | 26.7 | 26.4 |
| 9-Aug-96 | 2155 | 2355 | 10.23 | 10.6 | 9.9 | 26.3 | 26.5 | 26 |
| 10-Aug-96 | 2355 | 155 | 9.697 | 10 | 9.36 | 25.89 | 26.1 | 25.74 |
| 10-Aug-96 | 155 | 355 | 8.999 | 9.4 | 8.5 | 25.58 | 25.8 | 25.5 |
| 10-Aug-96 | 355 | 555 | 8.424 | 8.7 | 8 | 25.45 | 25.5 | 25.38 |
| 10-Aug-96 | 555 | 755 | 7.995 | 8.3 | 7.7 | 25.33 | 25.4 | 25.3 |
| 10-Aug-96 | 755 | 955 | 8.075 | 8.3 | 7.72 | 25.35 | 25.4 | 25.3 |
| 10-Aug-96 | 955 | 1155 | 8.206 | 8.6 | 7.9 | 25.49 | 25.6 | 25.4 |
| 10-Aug-96 | 1155 | 1355 | 9.192 | 9.7 | 8.6 | 25.9 | 26.1 | 25.6 |
| 10-Aug-96 | 1355 | 1555 | 9.609 | 10 | 9.1 | 26.12 | 26.3 | 25.9 |
| 10-Aug-96 | 1555 | 1755 | 9.625 | 10.2 | 8.6 | 26.02 | 26.2 | 25.72 |
| 10-Aug-96 | 1755 | 1955 | 10.32 | 10.7 | 9.96 | 26.18 | 26.3 | 26.1 |
| 10-Aug-96 | 1955 | 2155 | 10.1 | 10.3 | 9.86 | 26.02 | 26.2 | 25.9 |
| 10-Aug-96 | 2155 | 2355 | 9.799 | 10.3 | 9.5 | 25.8 | 25.9 | 25.7 |
| 11-Aug-96 | 2355 | 155 | 9.266 | 9.7 | 9 | 25.56 | 25.7 | 25.4 |
| 11-Aug-96 | 155 | 355 | 8.695 | 9.1 | 8.4 | 25.4 | 25.4 | 25.3 |
| 11-Aug-96 | 355 | 555 | 8.33 | 8.6 | 8.02 | 25.3 | 25.3 | 25.22 |
| 11-Aug-96 | 555 | 755 | 7.759 | 8.1 | 7.5 | 25.25 | 25.3 | 25.2 |
| 11-Aug-96 | 755 | 955 | 8.024 | 8.72 | 7.6 | 25.29 | 25.4 | 25.2 |
| 11-Aug-96 | 955 | 1155 | 8.151 | 9.08 | 7.26 | 25.34 | 25.6 | 25.2 |
| 11-Aug-96 | 1155 | 1355 | 9.637 | 10.3 | 8.8 | 25.94 | 26.7 | 25.52 |
| 11-Aug-96 | 1355 | 1555 | 10.57 | 10.9 | 9.3 | 26.8 | 27.2 | 25.68 |
| 11-Aug-96 | 1555 | 1755 | 10.92 | 11.3 | 10.5 | 26.9 | 27.2 | 26.52 |
| 11-Aug-96 | 1755 | 1955 | 11.02 | 11.3 | 10.56 | 26.68 | 27.1 | 26.3 |
| 11-Aug-96 | 1955 | 2155 | 10.36 | 10.9 | 9.9 | 26.15 | 26.4 | 25.98 |
| 11-Aug-96 | 2155 | 2355 | 9.591 | 10 | 9 | 25.87 | 26 | 25.7 |
| 12-Aug-96 | 2355 | 155 | 9.4 | 9.7 | 8.82 | 25.73 | 25.8 | 25.6 |
| 12-Aug-96 | 155 | 355 | 8.965 | 9.38 | 8.64 | 25.46 | 25.6 | 25.4 |
| 12-Aug-96 | 355 | 555 | 8.623 | 8.88 | 8 | 25.33 | 25.4 | 25.2 |
| 12-Aug-96 | 555 | 755 | 7.913 | 8.1 | 7.5 | 25.14 | 25.2 | 25.1 |
| 12-Aug-96 | 755 | 955 | 8.063 | 8.78 | 7.3 | 25.22 | 25.4 | 25.1 |
| 12-Aug-96 | 955 | 1155 | 8.185 | 9.32 | 7.1 | 25.32 | 26.72 | 18.92 |
| 12-Aug-96 | 1155 | 1355 | 8.509 | 30.87 | 0.04 | 25.91 | 31.41 | 23.86 |
| 12-Aug-96 | 1355 | 1555 | 9.198 | 10.32 | 7.1 | 25.74 | 26.5 | 25 |
| 12-Aug-96 | 1555 | 1755 | 9.169 | 10.6 | 6.74 | 25.56 | 26.5 | 24.94 |
| 12-Aug-96 | 1755 | 1955 | 7.251 | 9.02 | 6.3 | 25.02 | 25.3 | 24.9 |
| 12-Aug-96 | 1955 | 2155 | 7.585 | 8.2 | 6.44 | 25.05 | 25.1 | 24.9 |
| 12-Aug-96 | 2155 | 2355 | 7.485 | 7.9 | 6.54 | 24.92 | 25 | 24.76 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 13-Aug-96 | 2355 | 155 | 7.527 | 8 | 6.9 | 24.9 | 25 | 24.8 |
| 13-Aug-96 | 155 | 355 | 8.076 | 8.26 | 7.88 | 24.97 | 25 | 24.9 |
| 13-Aug-96 | 355 | 555 | 8.243 | 8.48 | 7.92 | 24.92 | 25 | 24.82 |
| 13-Aug-96 | 555 | 755 | 8.113 | 8.48 | 7.44 | 24.86 | 24.9 | 24.8 |
| 13-Aug-96 | 755 | 955 | 8.16 | 18.74 | 0.06 | 24.4 | 25 | 17.82 |
| 13-Aug-96 | 955 | 1155 | 8.19 | 9.66 | 6.6 | 24.95 | 25.4 | 24.7 |
| 13-Aug-96 | 1155 | 1355 | 9.336 | 10.32 | 7.82 | 25.23 | 25.5 | 24.92 |
| 13-Aug-96 | 1355 | 1555 | 9.285 | 10.32 | 8.54 | 25.22 | 25.6 | 25.1 |
| 13-Aug-96 | 1555 | 1755 | 8.997 | 9.42 | 8.16 | 25.2 | 25.3 | 25 |
| 13-Aug-96 | 1755 | 1955 | 8.257 | 9.44 | 6.76 | 25.06 | 25.2 | 24.8 |
| 13-Aug-96 | 1955 | 2155 | 8.286 | 8.86 | 6.6 | 24.96 | 25.1 | 24.8 |
| 13-Aug-96 | 2155 | 2355 | 7.989 | 8.72 | 7.1 | 24.91 | 25 | 24.9 |
| 14-Aug-96 | 2355 | 155 | 7.859 | 8.32 | 7.34 | 24.97 | 25 | 24.9 |
| 14-Aug-96 | 155 | 355 | 7.812 | 8.18 | 7.38 | 24.93 | 25 | 24.9 |
| 14-Aug-96 | 355 | 555 | 7.79 | 8.22 | 7.42 | 24.93 | 25 | 24.9 |
| 14-Aug-96 | 555 | 755 | 7.863 | 8.28 | 7.42 | 24.9 | 24.94 | 24.9 |
| 14-Aug-96 | 755 | 955 | 8.326 | 10.82 | 7.62 | 24.78 | 25.2 | 17.32 |
| 14-Aug-96 | 955 | 1155 | 9.027 | 9.72 | 7.96 | 25.16 | 25.52 | 22.96 |
| 14-Aug-96 | 1155 | 1355 | 8.514 | 9.92 | 6.36 | 25.28 | 25.8 | 24.7 |
| 14-Aug-96 | 1355 | 1555 | 7.94 | 10.26 | 6.6 | 25.01 | 26 | 24.7 |
| 14-Aug-96 | 1555 | 1755 | 8.837 | 10.58 | 7.8 | 25.23 | 26.1 | 24.9 |
| 14-Aug-96 | 1755 | 1955 | 8.571 | 9.66 | 7.68 | 25.02 | 25.1 | 24.9 |
| 14-Aug-96 | 1955 | 2155 | 8.912 | 9.36 | 8.22 | 25.17 | 25.2 | 25.04 |
| 14-Aug-96 | 2155 | 2355 | 8.053 | 9.78 | 6.64 | 25.02 | 25.3 | 24.8 |
| 15-Aug-96 | 2355 | 155 | 8.663 | 9.5 | 7.18 | 25.14 | 25.3 | 24.92 |
| 15-Aug-96 | 155 | 355 | 8.241 | 9.02 | 7.46 | 24.96 | 25.1 | 24.82 |
| 15-Aug-96 | 355 | 555 | 7.949 | 8.34 | 7.54 | 24.78 | 24.9 | 24.7 |
| 15-Aug-96 | 555 | 755 | 7.461 | 8.1 | 6.98 | 24.66 | 24.7 | 24.6 |
| 15-Aug-96 | 755 | 955 | 7.373 | 7.84 | 6.84 | 24.6 | 24.7 | 24.56 |
| 15-Aug-96 | 955 | 1155 | 7.973 | 8.7 | 7.12 | 24.68 | 24.7 | 24.6 |
| 15-Aug-96 | 1155 | 1355 | 8.604 | 9.14 | 7.88 | 24.55 | 25 | 18.64 |
| 15-Aug-96 | 1355 | 1555 | 9.425 | 10.2 | 8.48 | 25.15 | 25.5 | 24.9 |
| 15-Aug-96 | 1555 | 1755 | 10.22 | 10.78 | 9.6 | 25.49 | 25.7 | 25.3 |
| 15-Aug-96 | 1755 | 1955 | 10.31 | 10.78 | 9.72 | 25.22 | 25.5 | 25.06 |
| 15-Aug-96 | 1955 | 2155 | 9.576 | 10.34 | 9.14 | 25.01 | 25.16 | 25 |
| 15-Aug-96 | 2155 | 2355 | 9.16 | 9.5 | 8.76 | 24.92 | 25 | 24.9 |
| 16-Aug-96 | 2355 | 155 | 8.838 | 9.44 | 8.22 | 24.81 | 24.9 | 24.7 |
| 16-Aug-96 | 155 | 355 | 8.391 | 9.02 | 7.66 | 24.69 | 24.78 | 24.6 |
| 16-Aug-96 | 355 | 555 | 7.578 | 8.34 | 6.88 | 24.56 | 24.66 | 24.5 |
| 16-Aug-96 | 555 | 755 | 7.175 | 7.64 | 6.46 | 24.49 | 24.5 | 24.4 |
| 16-Aug-96 | 755 | 955 | 7.06 | 7.56 | 6.54 | 24.49 | 24.54 | 24.4 |
| 16-Aug-96 | 955 | 1155 | 8.255 | 9.5 | 6.88 | 24.99 | 25.3 | 24.5 |
| 16-Aug-96 | 1155 | 1355 | 9.244 | 10.2 | 7.9 | 25.61 | 26.56 | 24.7 |
| 16-Aug-96 | 1355 | 1555 | 11.34 | 13.54 | 9.3 | 26.58 | 27.3 | 25.58 |
| 16-Aug-96 | 1555 | 1755 | 14.68 | 18.84 | 11.72 | 27.27 | 27.7 | 26.54 |
| 16-Aug-96 | 1755 | 1955 | 17.2 | 18.44 | 15.24 | 27.07 | 27.3 | 26.76 |
| 16-Aug-96 | 1955 | 2155 | 16.13 | 18.58 | 13.4 | 26.39 | 27 | 25.8 |
| 16-Aug-96 | 2155 | 2355 | 13.71 | 14.3 | 12.78 | 25.75 | 25.9 | 25.58 |
| 17-Aug-96 | 2355 | 155 | 12.46 | 13.22 | 11.82 | 25.4 | 25.6 | 25.24 |
| 17-Aug-96 | 155 | 355 | 11.73 | 12.58 | 10.86 | 25.23 | 25.3 | 25.1 |
| 17-Aug-96 | 355 | 555 | 10.6 | 11.38 | 9.58 | 24.95 | 25.2 | 24.8 |
| 17-Aug-96 | 555 | 755 | 9.667 | 10.34 | 7.66 | 24.65 | 24.8 | 24.5 |
| 17-Aug-96 | 755 | 955 | 9.955 | 10.98 | 8.56 | 24.7 | 25.02 | 24.5 |
| 17-Aug-96 | 955 | 1155 | 11.03 | 13.18 | 9.88 | 25.11 | 25.5 | 24.8 |
| 17-Aug-96 | 1155 | 1355 | 14.06 | 17.82 | 10.6 | 26.25 | 27.8 | 25.38 |
| 17-Aug-96 | 1355 | 1555 | 15.68 | 20.26 | 13.4 | 24.2 | 28.24 | 26.16 |
| 17-Aug-96 | 1555 | 1755 | 17.67 | 19.86 | 14.12 | 27.83 | 28.36 | 26.36 |
| 17-Aug-96 | 1755 | 1955 | 15.07 | 18.18 | 10.72 | 26.92 | 27.8 | 25.82 |
| 17-Aug-96 | 1955 | 2155 | 13.36 | 15.44 | 11.36 | 26.12 | 26.8 | 25.84 |
| 17-Aug-96 | 2155 | 2355 | 12.33 | 13.28 | 11.06 | 25.59 | 25.9 | 25.3 |
| 18-Aug-96 | 2355 | 155 | 10.38 | 11.48 | 9.6 | 25.18 | 25.3 | 25 |
| 18-Aug-96 | 155 | 355 | 9.483 | 10.06 | 8.92 | 24.92 | 25 | 24.8 |
| 18-Aug-96 | 355 | 555 | 8.897 | 9.52 | 8.46 | 24.7 | 24.8 | 24.6 |
| 18-Aug-96 | 555 | 755 | 8.581 | 9.06 | 8.08 | 24.56 | 24.6 | 24.5 |
| 18-Aug-96 | 755 | 955 | 8.907 | 9.38 | 8.48 | 24.58 | 24.68 | 24.5 |
| 18-Aug-96 | 955 | 1155 | 9.559 | 10.42 | 8.82 | 24.7 | 24.82 | 24.6 |
| 18-Aug-96 | 1155 | 1355 | 9.958 | 11.14 | 9.12 | 24.84 | 25 | 24.7 |
| 18-Aug-96 | 1355 | 1555 | 10.39 | 11.9 | 9.48 | 25 | 25.36 | 24.8 |
| 18-Aug-96 | 1555 | 1755 | 11.15 | 12 | 10.1 | 25.25 | 25.4 | 25.1 |
| 18-Aug-96 | 1755 | 1955 | 10.46 | 11.7 | 9.16 | 25.15 | 25.3 | 25 |
| 18-Aug-96 | 1955 | 2155 | 9.017 | 9.7 | 8.04 | 24.91 | 25 | 24.8 |
| 18-Aug-96 | 2155 | 2355 | 8.78 | 9.3 | 8.14 | 24.81 | 24.9 | 24.7 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 19-Aug-96 | 2355 | 155 | 8.42 | 8.84 | 8.04 | 24.7 | 24.8 | 24.7 |
| 19-Aug-96 | 155 | 355 | 8.147 | 8.56 | 7.72 | 24.66 | 24.7 | 24.6 |
| 19-Aug-96 | 355 | 555 | 7.611 | 8.24 | 6.98 | 24.56 | 24.6 | 24.5 |
| 19-Aug-96 | 555 | 755 | 7.534 | 9.32 | 6.78 | 24.49 | 24.5 | 24.4 |
| 19-Aug-96 | 755 | 955 | 8.395 | 10.8 | 7.36 | 24.5 | 24.5 | 24.5 |
| 19-Aug-96 | 955 | 1155 | 7.533 | 8.02 | 7.02 | 24.49 | 24.5 | 24.4 |
| 19-Aug-96 | 1155 | 1355 | 7.368 | 19.18 | 0.94 | 24.54 | 30.5 | 21.8 |
| 19-Aug-96 | 1355 | 1555 | 7.208 | 9.2 | 6.14 | 24.42 | 24.5 | 24.3 |
| 19-Aug-96 | 1555 | 1755 | 5.951 | 6.4 | 5.6 | 24.33 | 24.4 | 24.3 |
| 19-Aug-96 | 1755 | 1955 | 5.918 | 6.54 | 5.4 | 24.33 | 24.4 | 24.2 |
| 19-Aug-96 | 1955 | 2155 | 6.213 | 7.1 | 5.72 | 24.3 | 24.4 | 24.3 |
| 19-Aug-96 | 2155 | 2355 | 6.017 | 7.1 | 4.52 | 24.23 | 24.3 | 24.3 |
| 20-Aug-96 | 2355 | 155 | 5.706 | 5.9 | 5.5 | 24.16 | 24.2 | 24.1 |
| 20-Aug-96 | 155 | 355 | 5.722 | 6.1 | 5.5 | 24.15 | 24.26 | 24.1 |
| 20-Aug-96 | 355 | 555 | 5.838 | 6 | 5.7 | 24.2 | 24.2 | 24.2 |
| 20-Aug-96 | 555 | 755 | 5.666 | 5.8 | 5.5 | 24.2 | 24.2 | 24.2 |
| 20-Aug-96 | 755 | 955 | 6.313 | 8.3 | 5.5 | 24.16 | 24.3 | 22.62 |
| 20-Aug-96 | 955 | 1155 | 6.68 | 7.14 | 6.24 | 24.42 | 24.98 | 24.2 |
| 20-Aug-96 | 1155 | 1355 | 6.814 | 7.38 | 6.28 | 24.68 | 25.34 | 24.26 |
| 20-Aug-96 | 1355 | 1555 | 7.365 | 9.72 | 6.5 | 24.67 | 26.84 | 24.3 |
| 20-Aug-96 | 1555 | 1755 | 10.27 | 12.48 | 8.8 | 25.67 | 26.4 | 25.02 |
| 20-Aug-96 | 1755 | 1955 | 8.648 | 11 | 7.62 | 24.88 | 26 | 24.5 |
| 20-Aug-96 | 1955 | 2155 | 8.478 | 10.24 | 6.94 | 24.72 | 25.2 | 24.48 |
| 20-Aug-96 | 2155 | 2355 | 8.098 | 9.24 | 5.9 | 24.54 | 24.8 | 24.1 |
| 21-Aug-96 | 2355 | 155 | 7.936 | 9.36 | 6.58 | 24.39 | 24.6 | 24.3 |
| 21-Aug-96 | 155 | 355 | 6.394 | 7.26 | 5.76 | 24.18 | 24.3 | 24.1 |
| 21-Aug-96 | 355 | 555 | 6.278 | 7.38 | 5.44 | 24.09 | 24.2 | 24 |
| 21-Aug-96 | 555 | 755 | 6.118 | 9.471 | 5.52 | 23.95 | 24.1 | 22.58 |
| 21-Aug-96 | 755 | 955 | 5.699 | 6.3 | 5.4 | 24.05 | 24.1 | 24 |
| 21-Aug-96 | 955 | 1155 | 6.065 | 7.04 | 5.5 | 24.18 | 24.72 | 24 |
| 21-Aug-96 | 1155 | 1355 | 6.475 | 8.22 | 5.7 | 24.49 | 25.24 | 24.1 |
| 21-Aug-96 | 1355 | 1555 | 6.501 | 7.18 | 5.8 | 24.5 | 25.2 | 24.2 |
| 21-Aug-96 | 1555 | 1755 | 6.523 | 7.06 | 5.9 | 24.4 | 24.86 | 24 |
| 21-Aug-96 | 1755 | 1955 | 5.845 | 6.22 | 5.4 | 24 | 24.2 | 23.9 |
| 21-Aug-96 | 1955 | 2155 | 6.212 | 6.4 | 6 | 24.2 | 24.2 | 24.2 |
| 21-Aug-96 | 2155 | 2355 | 6.017 | 6.36 | 5.7 | 24.24 | 24.3 | 24.1 |
| 22-Aug-96 | 2355 | 155 | 5.657 | 6.1 | 5.22 | 24.11 | 24.3 | 23.96 |
| 22-Aug-96 | 155 | 355 | 5.638 | 5.92 | 5.32 | 24.13 | 24.3 | 24 |
| 22-Aug-96 | 355 | 555 | 5.782 | 5.96 | 5.66 | 24.13 | 24.2 | 24.1 |
| 22-Aug-96 | 555 | 755 | 5.255 | 5.82 | 4.5 | 24.02 | 24.1 | 23.9 |
| 22-Aug-96 | 755 | 955 | 5.549 | 10.32 | 3.64 | 23.93 | 24.1 | 23.3 |
| 22-Aug-96 | 955 | 1155 | 5.437 | 6.1 | 4.6 | 24.02 | 24.1 | 23.84 |
| 22-Aug-96 | 1155 | 1355 | 5.748 | 6.28 | 4.7 | 24.18 | 24.4 | 23.9 |
| 22-Aug-96 | 1355 | 1555 | 5.417 | 6.26 | 4.8 | 24.16 | 24.44 | 23.98 |
| 22-Aug-96 | 1555 | 1755 | 6.083 | 6.78 | 5.1 | 24.38 | 24.5 | 24 |
| 22-Aug-96 | 1755 | 1955 | 6.469 | 6.8 | 6.1 | 24.5 | 24.6 | 24.4 |
| 22-Aug-96 | 1955 | 2155 | 6.543 | 7.2 | 6.24 | 24.43 | 24.5 | 24.4 |
| 22-Aug-96 | 2155 | 2355 | 6.798 | 7.2 | 6.4 | 24.33 | 24.4 | 24.3 |
| 23-Aug-96 | 2355 | 155 | 6.706 | 7.28 | 6.3 | 24.19 | 24.3 | 24 |
| 23-Aug-96 | 155 | 355 | 5.936 | 6.48 | 5.52 | 23.96 | 24 | 23.9 |
| 23-Aug-96 | 355 | 555 | 5.742 | 5.94 | 5.6 | 23.9 | 23.9 | 23.9 |
| 23-Aug-96 | 555 | 755 | 5.952 | 6.3 | 5.8 | 23.91 | 24 | 23.9 |
| 23-Aug-96 | 755 | 955 | 6.416 | 7.12 | 6.06 | 24.07 | 24.3 | 24 |
| 23-Aug-96 | 955 | 1155 | 6.958 | 7.84 | 6 | 24.3 | 24.5 | 24 |
| 23-Aug-96 | 1155 | 1355 | 8.613 | 10.42 | 6.792 | 24.87 | 25.82 | 23.2 |
| 23-Aug-96 | 1355 | 1555 | 10.7 | 11.7 | 9.94 | 24.42 | 25.6 | 25.12 |
| 23-Aug-96 | 1555 | 1755 | 11.9 | 12.72 | 11.2 | 25.42 | 25.62 | 25.2 |
| 23-Aug-96 | 1755 | 1955 | 11.8 | 12.48 | 10.9 | 25.28 | 25.5 | 25.08 |
| 23-Aug-96 | 1955 | 2155 | 10.12 | 10.86 | 9.3 | 24.9 | 25.1 | 24.7 |
| 23-Aug-96 | 2155 | 2355 | 9.15 | 9.46 | 8.9 | 24.62 | 24.7 | 24.5 |
| 24-Aug-96 | 2355 | 155 | 8.702 | 9.08 | 8.42 | 24.45 | 24.6 | 24.4 |
| 24-Aug-96 | 155 | 355 | 8.347 | 8.58 | 8.02 | 24.33 | 24.4 | 24.2 |
| 24-Aug-96 | 355 | 555 | 7.927 | 8.18 | 7.64 | 24.18 | 24.3 | 24.1 |
| 24-Aug-96 | 555 | 755 | 7.4 | 7.8 | 7.08 | 24.06 | 24.1 | 24 |
| 24-Aug-96 | 755 | 955 | 7.7 | 8.22 | 7.2 | 24.09 | 24.2 | 24 |
| 24-Aug-96 | 955 | 1155 | 8.637 | 9.7 | 7.54 | 24.27 | 24.46 | 24.1 |
| 24-Aug-96 | 1155 | 1355 | 8.233 | 9.72 | 7.34 | 24.25 | 24.72 | 24 |
| 24-Aug-96 | 1355 | 1555 | 8.406 | 9.78 | 6.9 | 24.42 | 24.9 | 24 |
| 24-Aug-96 | 1555 | 1755 | 7.864 | 8.7 | 7.14 | 24.3 | 24.5 | 24.08 |
| 24-Aug-96 | 1755 | 1955 | 7.544 | 7.82 | 7.2 | 24.17 | 24.2 | 24.1 |
| 24-Aug-96 | 1955 | 2155 | 7.209 | 8.18 | 5.96 | 24.12 | 24.26 | 23.9 |
| 24-Aug-96 | 2155 | 2355 | 7.411 | 8.36 | 6.44 | 24.15 | 24.28 | 24 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 25-Aug-96 | 2355 | 155 | 7.845 | 8.24 | 7.5 | 24.2 | 24.28 | 24.1 |
| 25-Aug-96 | 155 | 355 | 7.415 | 7.7 | 7.2 | 24.15 | 24.2 | 24.1 |
| 25-Aug-96 | 355 | 555 | 7.082 | 7.3 | 6.8 | 24.11 | 24.2 | 24.1 |
| 25-Aug-96 | 555 | 755 | 6.854 | 7 | 6.72 | 24.08 | 24.1 | 24 |
| 25-Aug-96 | 755 | 955 | 6.869 | 7.3 | 6.52 | 24.01 | 24.1 | 24 |
| 25-Aug-96 | 955 | 1155 | 7.297 | 8.88 | 6.14 | 24.14 | 24.58 | 24 |
| 25-Aug-96 | 1155 | 1355 | 7.705 | 10.04 | 6.56 | 24.35 | 25.1 | 24.08 |
| 25-Aug-96 | 1355 | 1555 | 6.796 | 7.2 | 6.5 | 24.13 | 24.3 | 24.1 |
| 25-Aug-96 | 1555 | 1755 | 6.641 | 6.9 | 6.3 | 24.11 | 24.2 | 24 |
| 25-Aug-96 | 1755 | 1955 | 6.404 | 6.72 | 6.2 | 24.03 | 24.1 | 24 |
| 25-Aug-96 | 1955 | 2155 | 6.056 | 6.38 | 5.8 | 23.94 | 24 | 23.9 |
| 25-Aug-96 | 2155 | 2355 | 6.128 | 6.3 | 5.9 | 24.01 | 24.1 | 24 |
| 26-Aug-96 | 2355 | 155 | 6.343 | 6.5 | 6.1 | 24.11 | 24.2 | 24 |
| 26-Aug-96 | 155 | 355 | 6.441 | 6.58 | 6.3 | 24.18 | 24.2 | 24.1 |
| 26-Aug-96 | 355 | 555 | 6.229 | 6.5 | 5.8 | 24.13 | 24.2 | 24.1 |
| 26-Aug-96 | 555 | 755 | 6.728 | 16.46 | 5.8 | 23.78 | 24.2 | 17.64 |
| 26-Aug-96 | 755 | 955 | 7.701 | 8.3 | 7.12 | 24.29 | 24.5 | 24.2 |
| 26-Aug-96 | 955 | 1155 | 7.911 | 8.38 | 7.5 | 24.55 | 24.7 | 24.4 |
| 26-Aug-96 | 1155 | 1355 | 9.034 | 10.52 | 7.64 | 24.93 | 25.1 | 24.62 |
| 26-Aug-96 | 1355 | 1555 | 9.827 | 10.32 | 9.44 | 25.02 | 25.1 | 25 |
| 26-Aug-96 | 1555 | 1755 | 10.41 | 10.9 | 9.92 | 25.07 | 25.1 | 25 |
| 26-Aug-96 | 1755 | 1955 | 9.917 | 10.9 | 8.78 | 24.9 | 25.06 | 24.7 |
| 26-Aug-96 | 1955 | 2155 | 8.69 | 9.2 | 8.32 | 24.64 | 24.7 | 24.5 |
| 26-Aug-96 | 2155 | 2355 | 8.148 | 8.56 | 7.9 | 24.49 | 24.56 | 24.4 |
| 27-Aug-96 | 2355 | 155 | 7.877 | 8.2 | 7.54 | 24.41 | 24.5 | 24.4 |
| 27-Aug-96 | 155 | 355 | 7.53 | 7.96 | 7.18 | 24.34 | 24.4 | 24.26 |
| 27-Aug-96 | 355 | 555 | 7.197 | 7.5 | 6.96 | 24.23 | 24.3 | 24.14 |
| 27-Aug-96 | 555 | 755 | 6.939 | 7.2 | 6.7 | 24.11 | 24.2 | 24 |
| 27-Aug-96 | 755 | 955 | 6.677 | 7 | 6.44 | 24.05 | 24.1 | 24 |
| 27-Aug-96 | 955 | 1155 | 6.722 | 7.2 | 6.5 | 24.13 | 24.2 | 24.1 |
| 27-Aug-96 | 1155 | 1355 | 7.773 | 10.06 | 6.88 | 24.17 | 24.52 | 21.15 |
| 27-Aug-96 | 1355 | 1555 | 10.08 | 12.42 | 7.76 | 24.82 | 25.4 | 24.3 |
| 27-Aug-96 | 1555 | 1755 | 13.29 | 15.38 | 10.34 | 25.55 | 25.8 | 25 |
| 27-Aug-96 | 1755 | 1955 | 12.26 | 15.52 | 10.16 | 25.21 | 25.6 | 24.9 |
| 27-Aug-96 | 1955 | 2155 | 10.08 | 11.24 | 9.28 | 24.85 | 25.1 | 24.7 |
| 27-Aug-96 | 2155 | 2355 | 9.385 | 9.92 | 8.8 | 24.65 | 24.7 | 24.5 |
| 28-Aug-96 | 2355 | 155 | 8.54 | 9.18 | 8.08 | 24.41 | 24.5 | 24.3 |
| 28-Aug-96 | 155 | 355 | 7.833 | 8.3 | 7.3 | 24.27 | 24.3 | 24.2 |
| 28-Aug-96 | 355 | 555 | 7.357 | 7.72 | 7 | 24.15 | 24.2 | 24.1 |
| 28-Aug-96 | 555 | 755 | 7.086 | 7.4 | 6.8 | 24.09 | 24.1 | 24 |
| 28-Aug-96 | 755 | 955 | 7.76 | 9.46 | 6.7 | 23.91 | 24.3 | 19.93 |
| 28-Aug-96 | 955 | 1155 | 9.826 | 13.22 | 8.48 | 24.62 | 26.18 | 24.26 |
| 28-Aug-96 | 1155 | 1355 | 12.85 | 15.14 | 10.6 | 25.73 | 26.78 | 24.88 |
| 28-Aug-96 | 1355 | 1555 | 13.37 | 14.44 | 12.18 | 26.52 | 27.2 | 25.92 |
| 28-Aug-96 | 1555 | 1755 | 14.87 | 17.28 | 10.98 | 26.77 | 27.3 | 25.34 |
| 28-Aug-96 | 1755 | 1955 | 13.93 | 17.4 | 12.16 | 26.42 | 27.1 | 25.7 |
| 28-Aug-96 | 1955 | 2155 | 11.61 | 12.7 | 10.9 | 25.85 | 26.1 | 25.58 |
| 28-Aug-96 | 2155 | 2355 | 11.91 | 13.14 | 11.02 | 25.45 | 25.7 | 25.14 |
| 29-Aug-96 | 2355 | 155 | 12.93 | 14.4 | 12.14 | 25.15 | 25.3 | 24.9 |
| 29-Aug-96 | 155 | 355 | 13.21 | 14.3 | 12.14 | 24.76 | 24.9 | 24.5 |
| 29-Aug-96 | 355 | 555 | 10.89 | 12.64 | 8.86 | 24.32 | 24.58 | 24.1 |
| 29-Aug-96 | 555 | 755 | 9.699 | 36.58 | 7.78 | 22.61 | 24.1 | 11.94 |
| 29-Aug-96 | 755 | 955 | 8.213 | 8.92 | 6.88 | 24 | 24.1 | 23.9 |
| 29-Aug-96 | 955 | 1155 | 8.595 | 10.94 | 6.52 | 24.19 | 24.86 | 23.9 |
| 29-Aug-96 | 1155 | 1355 | 10.18 | 16.02 | 5.68 | 24.84 | 26.74 | 23.8 |
| 29-Aug-96 | 1355 | 1555 | 18.05 | 20.68 | 15.28 | 27.37 | 28.14 | 26.32 |
| 29-Aug-96 | 1555 | 1755 | 16.75 | 19.28 | 14.76 | 26.89 | 27.78 | 26.3 |
| 29-Aug-96 | 1755 | 1955 | 14.12 | 15.54 | 12.1 | 26.32 | 26.8 | 25.8 |
| 29-Aug-96 | 1955 | 2155 | 11.76 | 12.7 | 10.9 | 25.5 | 25.8 | 25.3 |
| 29-Aug-96 | 2155 | 2355 | 11.3 | 12.1 | 10.44 | 25.14 | 25.3 | 24.94 |
| 29-Aug-96 | 2355 | 155 | 10.91 | 11.12 | 10.58 | 24.87 | 25.08 | 24.8 |
| 30-Aug-96 | 155 | 355 | 11.21 | 11.7 | 10.48 | 24.67 | 24.8 | 24.6 |
| 30-Aug-96 | 355 | 555 | 10.56 | 11.1 | 10.12 | 24.46 | 24.6 | 24.3 |
| 30-Aug-96 | 555 | 755 | 10.2 | 10.48 | 9.94 | 24.27 | 24.4 | 24.2 |
| 30-Aug-96 | 755 | 955 | 10.22 | 10.68 | 9.62 | 24.34 | 24.52 | 24.2 |
| 30-Aug-96 | 955 | 1155 | 12.04 | 15.52 | 9.68 | 25.05 | 26.06 | 24.34 |
| 30-Aug-96 | 1155 | 1355 | 16.1 | 18.22 | 13.4 | 26.82 | 28.46 | 24.94 |
| 30-Aug-96 | 1355 | 1555 | 17.56 | 19.28 | 15.5 | 27.08 | 28.78 | 25.7 |
| 30-Aug-96 | 1555 | 1755 | 17.35 | 19.82 | 13.04 | 26.65 | 28.24 | 24.88 |
| 30-Aug-96 | 1755 | 1955 | 17.53 | 20.06 | 12.56 | 27.35 | 28.1 | 25.12 |
| 30-Aug-96 | 1955 | 2155 | 17.91 | 20.08 | 15.52 | 27.08 | 27.8 | 26.36 |
| 30-Aug-96 | 2155 | 2355 | 15.4 | 16.7 | 13.66 | 26.11 | 26.62 | 25.58 |

Continous D.O. August 1996

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 30-Aug-96 | 2355 | 155 | 14.33 | 15.36 | 13.22 | 25.64 | 26 | 25.3 |
| 31-Aug-96 | 155 | 355 | 13.33 | 14.06 | 12.28 | 25.01 | 25.4 | 24.74 |
| 31-Aug-96 | 355 | 555 | 11.91 | 13.1 | 10.3 | 24.57 | 24.8 | 24.4 |
| 31-Aug-96 | 555 | 755 | 11.34 | 11.74 | 10.92 | 24.34 | 24.4 | 24.28 |
| 31-Aug-96 | 755 | 955 | 10.96 | 12.1 | 8.08 | 24.31 | 24.4 | 24 |
| 31-Aug-96 | 955 | 1155 | 12.29 | 14.4 | 8.44 | 24.79 | 25.48 | 24.12 |
| 31-Aug-96 | 1155 | 1355 | 14.58 | 15.82 | 12.04 | 25.8 | 27.72 | 24.6 |
| 31-Aug-96 | 1355 | 1555 | 14.95 | 16.32 | 11.12 | 25.76 | 26.64 | 24.58 |
| 31-Aug-96 | 155 | 1755 | 16.42 | 16.92 | 15.56 | 26.36 | 26.86 | 25.9 |
| 31-Aug-96 | 1755 | 1955 | 15.15 | 16.22 | 13.42 | 25.69 | 26.24 | 25.12 |
| 31-Aug-96 | 1955 | 2155 | 14.43 | 15.2 | 13.54 | 25.36 | 25.6 | 25.14 |
| 31-Aug-96 | 2155 | 2355 | 14.03 | 14.58 | 13.26 | 25.22 | 25.3 | 25.1 |
| 31-Aug-96 | 2355 | 155 | 13.32 | 13.78 | 12.8 | 25.04 | 25.2 | 24.9 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 1-Sep-96 | 155 | 355 | 12.8 | 13.24 | 12.34 | 24.82 | 25 | 24.7 |
| 1-Sep-96 | 355 | 555 | 12.42 | 12.86 | 12.04 | 24.59 | 24.7 | 24.4 |
| 1-Sep-96 | 555 | 755 | 11.64 | 12.38 | 10.98 | 24.31 | 24.5 | 24.2 |
| 1-Sep-96 | 755 | 955 | 12.16 | 12.7 | 11.42 | 24.4 | 24.6 | 24.2 |
| 1-Sep-96 | 955 | 1155 | 12.94 | 15.46 | 10.1 | 24.69 | 25.7 | 24.18 |
| 1-Sep-96 | 1155 | 1355 | 13.23 | 14.54 | 11.7 | 24.9 | 25.4 | 24.4 |
| 1-Sep-96 | 1355 | 1555 | 12.23 | 13.44 | 10.18 | 24.92 | 25.4 | 24.5 |
| 1-Sep-96 | 1555 | 1755 | 10.23 | 11.8 | 7.98 | 24.5 | 24.92 | 23.96 |
| 1-Sep-96 | 1755 | 1955 | 9.913 | 10.9 | 8.88 | 24.31 | 24.6 | 24.1 |
| 1-Sep-96 | 1955 | 2155 | 10.06 | 10.64 | 8.18 | 24.25 | 24.3 | 24 |
| 1-Sep-96 | 2155 | 2355 | 10.19 | 10.84 | 8.36 | 24.24 | 24.3 | 23.94 |
| 1-Sep-96 | 2355 | 155 | 7.901 | 10.6 | 5.34 | 23.92 | 24.2 | 23.5 |
| 2-Sep-96 | 155 | 355 | 10.06 | 10.58 | 9.48 | 24.15 | 24.2 | 24.06 |
| 2-Sep-96 | 355 | 555 | 9.274 | 9.8 | 8.82 | 23.99 | 24.1 | 23.9 |
| 2-Sep-96 | 555 | 755 | 9.03 | 9.48 | 8.74 | 23.9 | 23.9 | 23.9 |
| 2-Sep-96 | 755 | 955 | 9.883 | 10.66 | 9.32 | 24 | 24.18 | 23.9 |
| 2-Sep-96 | 955 | 1155 | 10.79 | 11.96 | 10.12 | 24.22 | 24.9 | 24.06 |
| 2-Sep-96 | 1155 | 1355 | 9.893 | 11.9 | 7.82 | 24.29 | 25.2 | 23.76 |
| 2-Sep-96 | 1355 | 1555 | 9.691 | 11 | 8.42 | 24.28 | 24.6 | 24 |
| 2-Sep-96 | 1555 | 1755 | 9.024 | 9.84 | 7.72 | 24.02 | 24.3 | 23.7 |
| 2-Sep-96 | 1755 | 1955 | 7.567 | 8.38 | 6.94 | 23.62 | 23.7 | 23.6 |
| 2-Sep-96 | 1955 | 2155 | 3.407 | 8.08 | 1.92 | 23.04 | 23.62 | 22.8 |
| 2-Sep-96 | 2155 | 2355 | 3.54 | 7.04 | 2.6 | 23.03 | 23.5 | 22.9 |
| 2-Sep-96 | 2355 | 155 | 8.61 | 9.6 | 4.74 | 23.62 | 23.7 | 23.28 |
| 3-Sep-96 | 155 | 355 | 9.038 | 9.62 | 7.9 | 23.7 | 23.8 | 23.7 |
| 3-Sep-96 | 355 | 555 | 8.669 | 9.1 | 8 | 23.73 | 23.8 | 23.7 |
| 3-Sep-96 | 555 | 755 | 9.103 | 9.6 | 8.7 | 23.78 | 23.8 | 23.7 |
| 3-Sep-96 | 755 | 955 | 9.876 | 10.5 | 9.38 | 23.83 | 23.94 | 23.8 |
| 3-Sep-96 | 955 | 1155 | 10.16 | 12.44 | 8.154 | 24.04 | 25.1 | 22.98 |
| 3-Sep-96 | 1155 | 1355 | 13.48 | 14.36 | 11.66 | 25.1 | 25.9 | 24.54 |
| 3-Sep-96 | 1355 | 1555 | 11.8 | 14.52 | 9.14 | 24.63 | 25.9 | 23.8 |
| 3-Sep-96 | 1555 | 1755 | 13.8 | 15.3 | 11.54 | 25.22 | 26.1 | 24.4 |
| 3-Sep-96 | 1755 | 1955 | 9.811 | 13.24 | 7.28 | 24.28 | 25.14 | 23.88 |
| 3-Sep-96 | 1955 | 2155 | 12 | 13.38 | 9.06 | 24.71 | 25 | 24.1 |
| 3-Sep-96 | 2155 | 2355 | 8.855 | 10.72 | 7.14 | 24.02 | 24.34 | 23.8 |
| 3-Sep-96 | 2355 | 155 | 10.92 | 11.68 | 8.5 | 24.32 | 24.44 | 24 |
| 4-Sep-96 | 155 | 355 | 11.58 | 11.9 | 11.08 | 24.39 | 24.4 | 24.3 |
| 4-Sep-96 | 355 | 555 | 11.44 | 11.74 | 11 | 24.25 | 24.4 | 24.1 |
| 4-Sep-96 | 555 | 755 | 11.02 | 11.5 | 10.64 | 24.1 | 24.2 | 24.06 |
| 4-Sep-96 | 755 | 955 | 11.42 | 12.56 | 10.68 | 24.22 | 24.46 | 24.1 |
| 4-Sep-96 | 955 | 1155 | 11.77 | 15.1 | 8.031 | 24.53 | 25.48 | 22.58 |
| 4-Sep-96 | 1155 | 1355 | 12.05 | 14.76 | 10 | 25.04 | 26.24 | 24.22 |
| 4-Sep-96 | 1355 | 1555 | 10.41 | 15.22 | 6.8 | 25.03 | 27.04 | 23.8 |
| 4-Sep-96 | 1555 | 1755 | 13.67 | 14.74 | 12.98 | 26.93 | 27.3 | 26.36 |
| 4-Sep-96 | 1755 | 1955 | 13.49 | 14.62 | 12.18 | 25.89 | 27.1 | 24.8 |
| 4-Sep-96 | 1955 | 2155 | 14.02 | 14.66 | 13.06 | 25.2 | 25.6 | 24.9 |
| 4-Sep-96 | 2155 | 2355 | 12.42 | 14.08 | 10.88 | 24.76 | 25.44 | 24.38 |
| 4-Sep-96 | 2355 | 155 | 12.94 | 13.6 | 11.26 | 24.86 | 25 | 24.42 |
| 5-Sep-96 | 155 | 355 | 12.68 | 13.22 | 11.78 | 24.71 | 24.8 | 24.6 |
| 5-Sep-96 | 355 | 555 | 12.13 | 13 | 11.08 | 24.45 | 24.7 | 24.3 |
| 5-Sep-96 | 555 | 755 | 11.37 | 12.02 | 10.62 | 24.21 | 24.3 | 24.1 |
| 5-Sep-96 | 755 | 955 | 11.03 | 18.42 | 8.196 | 24.09 | 24.8 | 20.48 |
| 5-Sep-96 | 955 | 1155 | 11.88 | 13.02 | 10.32 | 24.84 | 25.6 | 24.34 |
| 5-Sep-96 | 1155 | 1355 | 12.4 | 14.48 | 7.7 | 25.31 | 26.48 | 23.2 |
| 5-Sep-96 | 1355 | 1555 | 13.25 | 21.52 | 0 | 26.82 | 32.47 | 22.5 |
| 5-Sep-96 | 1555 | 1755 | 15.01 | 16.7 | 14.1 | 26.97 | 27.5 | 26.18 |
| 5-Sep-96 | 1755 | 1955 | 14.42 | 15.58 | 13.38 | 26.39 | 26.88 | 25.06 |
| 5-Sep-96 | 1955 | 2155 | 14.21 | 14.64 | 13.84 | 26.91 | 27.1 | 26.7 |
| 5-Sep-96 | 2155 | 2355 | 13.32 | 14.4 | 12.36 | 26.33 | 27.1 | 25.36 |
| 5-Sep-96 | 2355 | 155 | 13.01 | 13.6 | 12.22 | 25.4 | 26.2 | 24.9 |
| 6-Sep-96 | 155 | 355 | 12.36 | 13.04 | 11.94 | 24.83 | 25 | 24.8 |
| 6-Sep-96 | 355 | 555 | 12.25 | 12.86 | 11.8 | 24.85 | 24.9 | 24.8 |
| 6-Sep-96 | 555 | 755 | 12.24 | 12.64 | 11.82 | 24.83 | 24.9 | 24.8 |
| 6-Sep-96 | 755 | 955 | 12.43 | 13.28 | 11.82 | 24.93 | 25.1 | 24.8 |
| 6-Sep-96 | 955 | 1155 | 13 | 14.1 | 11.36 | 25.29 | 25.9 | 24.7 |
| 6-Sep-96 | 1155 | 1355 | 13.61 | 14.08 | 13.1 | 25.71 | 25.9 | 25.4 |
| 6-Sep-96 | 1355 | 1555 | 13.98 | 14.82 | 12.96 | 26.18 | 26.6 | 25.62 |
| 6-Sep-96 | 1555 | 1755 | 14.29 | 15.08 | 13.38 | 26.16 | 26.5 | 25.8 |
| 6-Sep-96 | 1755 | 1955 | 13.76 | 14.38 | 12.68 | 25.91 | 26 | 25.8 |
| 6-Sep-96 | 1955 | 2155 | 13.16 | 13.7 | 12.6 | 25.73 | 25.9 | 25.6 |
| 6-Sep-96 | 2155 | 2355 | 12.82 | 13.28 | 12.36 | 25.6 | 25.7 | 25.6 |
| 6-Sep-96 | 2355 | 155 | 12.49 | 13 | 11.92 | 25.59 | 25.6 | 25.5 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 7-Sep-96 | 155 | 355 | 11.99 | 12.6 | 11.42 | 25.48 | 25.5 | 25.4 |
| 7-Sep-96 | 355 | 555 | 11.59 | 12.1 | 11.04 | 25.37 | 25.4 | 25.3 |
| 7-Sep-96 | 555 | 755 | 11.17 | 11.6 | 10.66 | 25.23 | 23.3 | 25.2 |
| 7-Sep-96 | 755 | 955 | 11.16 | 11.7 | 10.38 | 25.19 | 25.2 | 25.11 |
| 7-Sep-96 | 955 | 1155 | 10.63 | 11.1 | 9.92 | 25.12 | 25.2 | 25.1 |
| 7-Sep-96 | 1155 | 1355 | 10.52 | 11.34 | 9.98 | 25.1 | 25.2 | 25.1 |
| 7-Sep-96 | 1355 | 1555 | 10.56 | 11.1 | 10.08 | 25.08 | 25.16 | 25 |
| 7-Sep-96 | 1555 | 1755 | 10.21 | 10.96 | 9.64 | 25.1 | 25.2 | 25.1 |
| 7-Sep-96 | 1755 | 1955 | 9.799 | 10.4 | 8.92 | 25.1 | 25.14 | 24.82 |
| 7-Sep-96 | 1955 | 2155 | 9.665 | 10.08 | 9.14 | 25.03 | 25.1 | 24.84 |
| 7-Sep-96 | 2155 | 2355 | 9.445 | 9.92 | 9 | 25.07 | 25.26 | 25 |
| 7-Sep-96 | 2355 | 155 | 9.295 | 9.68 | 8.82 | 25.1 | 25.1 | 24.88 |
| 8-Sep-96 | 155 | 355 | 9.243 | 9.7 | 8.72 | 25.09 | 25.2 | 24.94 |
| 8-Sep-96 | 355 | 555 | 9.14 | 9.92 | 8.68 | 25.01 | 25.1 | 24.9 |
| 8-Sep-96 | 555 | 755 | 9.038 | 9.48 | 8.58 | 25 | 25.1 | 25 |
| 8-Sep-96 | 755 | 955 | 9.223 | 10.5 | 8.46 | 25.07 | 25.1 | 24.96 |
| 8-Sep-96 | 955 | 1155 | 9.019 | 9.5 | 8.52 | 25.06 | 25.1 | 25 |
| 8-Sep-96 | 1155 | 1355 | 8.994 | 9.36 | 8.5 | 25.02 | 25.1 | 25 |
| 8-Sep-96 | 1355 | 1555 | 8.07 | 8.86 | 6.58 | 24.8 | 25 | 24.46 |
| 8-Sep-96 | 1555 | 1755 | 7.495 | 8.04 | 6.64 | 24.68 | 24.8 | 24.5 |
| 8-Sep-96 | 1755 | 1955 | 6.94 | 7.7 | 6.02 | 24.67 | 24.8 | 24.4 |
| 8-Sep-96 | 1955 | 2155 | 7.567 | 8.86 | 6.74 | 24.83 | 24.9 | 24.7 |
| 8-Sep-96 | 2155 | 2355 | 8.112 | 9.2 | 6.6 | 24.81 | 24.9 | 24.6 |
| 8-Sep-96 | 2355 | 155 | 7.464 | 8.98 | 5.64 | 24.71 | 24.9 | 24.4 |
| 9-Sep-96 | 155 | 355 | 8.529 | 9.18 | 6.9 | 24.82 | 24.9 | 24.66 |
| 9-Sep-96 | 355 | 555 | 8.832 | 9.24 | 8.08 | 24.8 | 24.8 | 24.8 |
| 9-Sep-96 | 555 | 755 | 8.854 | 9.3 | 8.1 | 24.7 | 24.8 | 22.34 |
| 9-Sep-96 | 755 | 955 | 9.004 | 9.44 | 8.54 | 24.69 | 24.7 | 24.6 |
| 9-Sep-96 | 955 | 1155 | 9.87 | 11.22 | 9 | 24.78 | 25 | 24.7 |
| 9-Sep-96 | 1155 | 1355 | 10.57 | 11.4 | 9.96 | 25.4 | 26.1 | 24.9 |
| 9-Sep-96 | 1355 | 1555 | 11.86 | 13.22 | 10.6 | 26.1 | 26.5 | 25.9 |
| 9-Sep-96 | 1555 | 1755 | 13.55 | 14.22 | 12.74 | 26.31 | 26.48 | 26.2 |
| 9-Sep-96 | 1755 | 1955 | 13.9 | 14.56 | 13.34 | 25.95 | 26.2 | 25.8 |
| 9-Sep-96 | 1955 | 2155 | 13.44 | 14.12 | 12.86 | 25.66 | 25.8 | 25.5 |
| 9-Sep-96 | 2155 | 2355 | 12.77 | 13.5 | 11.96 | 25.33 | 25.5 | 25.2 |
| 9-Sep-96 | 2355 | 155 | 12.21 | 12.62 | 11.66 | 25.14 | 25.2 | 25 |
| 10-Sep-96 | 155 | 355 | 11.57 | 12.3 | 10.76 | 24.96 | 25.1 | 24.9 |
| 10-Sep-96 | 355 | 555 | 10.81 | 11.44 | 9.94 | 24.84 | 24.9 | 24.8 |
| 10-Sep-96 | 555 | 755 | 9.743 | 1056 | 8.98 | 24.71 | 24.8 | 24.64 |
| 10-Sep-96 | 755 | 955 | 9.355 | 10.1 | 8.78 | 24.62 | 24.7 | 24.6 |
| 10-Sep-96 | 955 | 1043 | 10.58 | 11.68 | 9.46 | 24.86 | 25.1 | 24.7 |
| 10-Sep-96 | 1125 | 1155 | 9.644 | 11.44 | 6.3 | 28.62 | 34.5 | 24.7 |
| 10-Sep-96 | 1155 | 1355 | 10.59 | 11.3 | 9.86 | 24.77 | 24.98 | 24.7 |
| 10-Sep-96 | 1355 | 1555 | 9.693 | 10.46 | 8.96 | 24.68 | 24.8 | 24.6 |
| 10-Sep-96 | 1555 | 1755 | 9.574 | 10.36 | 7.18 | 24.55 | 24.6 | 24.36 |
| 10-Sep-96 | 1755 | 1955 | 6.164 | 7.96 | 5.32 | 24.31 | 24.42 | 24.2 |
| 10-Sep-96 | 1955 | 2155 | 7.128 | 8.1 | 5.54 | 24.3 | 24.4 | 24.2 |
| 10-Sep-96 | 2155 | 2355 | 8.1 | 8.6 | 7.72 | 24.3 | 24.3 | 24.24 |
| 10-Sep-96 | 2355 | 155 | 8.177 | 8.46 | 7.9 | 24.25 | 24.3 | 24.2 |
| 11-Sep-96 | 155 | 355 | 8.007 | 8.1 | 7.76 | 24.21 | 24.3 | 24.1 |
| 11-Sep-96 | 355 | 555 | 8.041 | 8.2 | 7.82 | 24.19 | 24.26 | 24.1 |
| 11-Sep-96 | 555 | 755 | 8.017 | 12.2 | 7.06 | 24.07 | 24.26 | 22 |
| 11-Sep-96 | 755 | 955 | 7.452 | 7.64 | 7.08 | 24.24 | 24.4 | 24.2 |
| 11-Sep-96 | 955 | 1155 | 7.881 | 8.5 | 7.28 | 24.36 | 24.6 | 24.3 |
| 11-Sep-96 | 1155 | 1355 | 8.973 | 9.9 | 8.16 | 24.65 | 24.8 | 24.48 |
| 11-Sep-96 | 1355 | 1555 | 10.47 | 11.4 | 9.6 | 24.86 | 25.04 | 24.62 |
| 11-Sep-96 | 1555 | 1755 | 10.61 | 11.4 | 9.46 | 24.74 | 24.9 | 24.5 |
| 11-Sep-96 | 1755 | 1955 | 9.142 | 10 | 8.12 | 24.45 | 24.54 | 24.3 |
| 11-Sep-96 | 1955 | 2155 | 7.877 | 8.2 | 7.54 | 24.22 | 24.3 | 24.16 |
| 11-Sep-96 | 2155 | 2355 | 7.755 | 8.08 | 7.12 | 24.1 | 24.2 | 24 |
| 11-Sep-96 | 2355 | 155 | 7.27 | 7.6 | 6.88 | 23.97 | 24 | 23.9 |
| 12-Sep-96 | 155 | 355 | 6.633 | 6.9 | 6.36 | 23.85 | 23.9 | 23.8 |
| 12-Sep-96 | 355 | 555 | 6.305 | 6.7 | 5.8 | 23.73 | 23.8 | 23.7 |
| 12-Sep-96 | 555 | 755 | 6.742 | 9.6 | 5.42 | 23.31 | 23.7 | 18.41 |
| 12-Sep-96 | 755 | 955 | 8.848 | 9.1 | 8.54 | 23.68 | 23.7 | 23.6 |
| 12-Sep-96 | 955 | 1155 | 8.587 | 8.9 | 8.04 | 23.63 | 23.7 | 23.6 |
| 12-Sep-96 | 1155 | 1355 | 8.492 | 8.8 | 8.16 | 23.6 | 23.7 | 23.6 |
| 12-Sep-96 | 1355 | 1555 | 8.128 | 8.6 | 7.74 | 23.54 | 23.6 | 23.5 |
| 12-Sep-96 | 1555 | 1755 | 7.86 | 8.2 | 7.6 | 23.48 | 23.5 | 23.4 |
| 12-Sep-96 | 1755 | 1955 | 7.279 | 7.7 | 6.94 | 23.37 | 23.4 | 23.3 |
| 12-Sep-96 | 1955 | 2155 | 7.029 | 7.2 | 6.8 | 23.24 | 23.3 | 23.1 |
| 12-Sep-96 | 2155 | 2355 | 7.245 | 7.6 | 6.76 | 23.09 | 23.2 | 23 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 12-Sep-96 | 2355 | 155 | 7.412 | 7.6 | 6.9 | 22.99 | 23 | 22.9 |
| 13-Sep-96 | 155 | 355 | 7.206 | 7.4 | 6.98 | 22.85 | 23 | 22.74 |
| 13-Sep-96 | 355 | 555 | 6.865 | 7.1 | 6.62 | 22.69 | 22.8 | 22.6 |
| 13-Sep-96 | 555 | 755 | 6.649 | 6.78 | 6.26 | 22.53 | 22.6 | 22.4 |
| 13-Sep-96 | 755 | 955 | 6.649 | 6.88 | 6.14 | 22.41 | 22.5 | 22.4 |
| 13-Sep-96 | 955 | 1155 | 6.842 | 7.2 | 6.26 | 22.4 | 22.5 | 22.3 |
| 13-Sep-96 | 1155 | 1355 | 7.105 | 7.4 | 6.54 | 22.48 | 22.58 | 22.4 |
| 13-Sep-96 | 1355 | 1555 | 7.566 | 7.92 | 6.92 | 22.65 | 22.7 | 22.5 |
| 13-Sep-96 | 1555 | 1755 | 7.587 | 7.88 | 7.06 | 22.56 | 22.64 | 22.5 |
| 13-Sep-96 | 1755 | 1955 | 7.248 | 7.7 | 6.34 | 22.44 | 22.5 | 22.3 |
| 13-Sep-96 | 1955 | 2155 | 6.567 | 6.7 | 5.98 | 22.3 | 22.4 | 22.3 |
| 13-Sep-96 | 2155 | 2355 | 6.448 | 6.6 | 5.98 | 22.25 | 22.3 | 22.2 |
| 13-Sep-96 | 2355 | 155 | 6.323 | 6.5 | 5.66 | 22.15 | 22.2 | 22.1 |
| 14-Sep-96 | 155 | 355 | 6.191 | 6.4 | 5.92 | 22.04 | 22.1 | 22 |
| 14-Sep-96 | 355 | 555 | 6.111 | 6.3 | 5.56 | 21.93 | 22 | 21.9 |
| 14-Sep-96 | 555 | 755 | 6.266 | 6.4 | 5.76 | 21.78 | 21.9 | 21.7 |
| 14-Sep-96 | 755 | 955 | 6.284 | 6.5 | 5.42 | 21.71 | 21.8 | 21.7 |
| 14-Sep-96 | 955 | 1155 | 6.191 | 6.4 | 5.66 | 21.68 | 21.7 | 21.6 |
| 14-Sep-96 | 1155 | 1355 | 6.352 | 6.5 | 5.7 | 21.64 | 21.7 | 21.6 |
| 14-Sep-96 | 1355 | 1555 | 6.56 | 6.8 | 6.18 | 21.65 | 21.7 | 21.5 |
| 14-Sep-96 | 1555 | 1755 | 6.437 | 6.6 | 6.02 | 21.53 | 21.6 | 21.5 |
| 14-Sep-96 | 1755 | 1955 | 6.265 | 6.5 | 5.9 | 21.46 | 21.5 | 21.4 |
| 14-Sep-96 | 1955 | 2155 | 6.202 | 6.4 | 5.74 | 21.4 | 21.4 | 21.3 |
| 14-Sep-96 | 2155 | 2355 | 6.232 | 6.4 | 5.7 | 21.31 | 21.4 | 21.3 |
| 14-Sep-96 | 2355 | 155 | 6.252 | 6.4 | 5.7 | 21.22 | 21.3 | 21.2 |
| 15-Sep-96 | 155 | 355 | 6.248 | 6.4 | 5.82 | 21.13 | 21.2 | 21.1 |
| 15-Sep-96 | 355 | 555 | 6.289 | 6.4 | 5.8 | 21.07 | 21.1 | 21 |
| 15-Sep-96 | 555 | 755 | 6.337 | 6.5 | 5.92 | 21 | 21 | 20.9 |
| 15-Sep-96 | 755 | 955 | 6.406 | 6.6 | 5.92 | 21 | 21.06 | 20.9 |
| 15-Sep-96 | 955 | 1155 | 6.653 | 7.24 | 6.2 | 21.34 | 21.84 | 20.94 |
| 15-Sep-96 | 1155 | 1355 | 8.687 | 9.92 | 7.18 | 22.27 | 22.66 | 21.6 |
| 15-Sep-96 | 1355 | 1555 | 8.516 | 8.9 | 7.88 | 22.38 | 22.7 | 22.1 |
| 15-Sep-96 | 1555 | 1755 | 8.022 | 8.5 | 7.56 | 21.86 | 22.1 | 21.6 |
| 15-Sep-96 | 1755 | 1955 | 7.665 | 8.3 | 6.96 | 21.47 | 21.7 | 21.2 |
| 15-Sep-96 | 1955 | 2155 | 7.291 | 7.5 | 6.74 | 21.27 | 21.3 | 21.14 |
| 15-Sep-96 | 2155 | 2355 | 7.026 | 7.48 | 6.68 | 21.16 | 21.3 | 21 |
| 15-Sep-96 | 2355 | 155 | 6.606 | 6.8 | 6.2 | 20.86 | 21 | 20.7 |
| 16-Sep-96 | 155 | 355 | 6.564 | 6.7 | 6.26 | 20.7 | 20.8 | 20.62 |
| 16-Sep-96 | 355 | 555 | 6.625 | 6.8 | 6.42 | 20.58 | 20.7 | 20.5 |
| 16-Sep-96 | 555 | 755 | 6.775 | 9.389 | 6.38 | 20.35 | 20.5 | 16.34 |
| 16-Sep-96 | 755 | 955 | 6.851 | 7.02 | 6.34 | 20.36 | 20.4 | 20.3 |
| 16-Sep-96 | 955 | 1155 | 6.657 | 7.02 | 6.14 | 20.4 | 20.5 | 20.3 |
| 16-Sep-96 | 1155 | 1355 | 6.87 | 7.1 | 6.28 | 20.37 | 20.4 | 20.3 |
| 16-Sep-96 | 1355 | 1555 | 6.89 | 7.5 | 6.42 | 20.27 | 20.3 | 20.2 |
| 16-Sep-96 | 1555 | 1755 | 7.751 | 8.2 | 7.08 | 20.12 | 20.2 | 20.1 |
| 16-Sep-96 | 1755 | 1955 | 7.445 | 7.76 | 6.64 | 20.09 | 20.1 | 20 |
| 16-Sep-96 | 1955 | 2155 | 7.215 | 7.5 | 6.58 | 20.02 | 20.1 | 20 |
| 16-Sep-96 | 2155 | 2355 | 7.021 | 7.38 | 6.52 | 19.99 | 20 | 19.9 |
| 16-Sep-96 | 2355 | 155 | 6.981 | 7.38 | 6.4 | 19.9 | 19.94 | 19.9 |
| 17-Sep-96 | 155 | 355 | 6.999 | 7.3 | 6.6 | 19.86 | 19.9 | 19.8 |
| 17-Sep-96 | 355 | 555 | 7.022 | 7.2 | 6.36 | 19.75 | 19.8 | 19.7 |
| 17-Sep-96 | 555 | 755 | 7.032 | 7.2 | 6.66 | 19.71 | 19.8 | 19.7 |
| 17-Sep-96 | 755 | 955 | 7.049 | 7.2 | 6.64 | 19.69 | 19.7 | 19.6 |
| 17-Sep-96 | 955 | 1155 | 7.098 | 7.3 | 6.72 | 19.6 | 19.6 | 19.6 |
| 17-Sep-96 | 155 | 1355 | 7.291 | 7.6 | 6.68 | 19.65 | 19.8 | 19.6 |
| 17-Sep-96 | 1355 | 1555 | 7.657 | 8 | 6.98 | 19.66 | 19.8 | 19.58 |
| 17-Sep-96 | 1555 | 1755 | 7.614 | 8 | 7.04 | 19.63 | 19.7 | 19.52 |
| 17-Sep-96 | 1755 | 1955 | 7.47 | 7.76 | 6.98 | 19.44 | 19.56 | 19.4 |
| 17-Sep-96 | 1955 | 2155 | 7.205 | 7.4 | 6.92 | 19.36 | 19.4 | 19.3 |
| 17-Sep-96 | 2155 | 2355 | 7.226 | 7.44 | 6.94 | 19.25 | 19.3 | 19.2 |
| 17-Sep-96 | 2355 | 155 | 7.3 | 7.5 | 6.56 | 19.13 | 19.2 | 19.1 |
| 18-Sep-96 | 155 | 355 | 7.293 | 7.42 | 6.74 | 19.04 | 19.1 | 19 |
| 18-Sep-96 | 355 | 555 | 7.095 | 7.32 | 6.56 | 18.95 | 19 | 18.9 |
| 18-Sep-96 | 555 | 755 | 7.101 | 7.3 | 6.52 | 18.85 | 19 | 18.8 |
| 18-Sep-96 | 755 | 955 | 7.245 | 10.12 | 6.62 | 18.74 | 20.8 | 14.5 |
| 18-Sep-96 | 955 | 1155 | 7.799 | 9.18 | 6.94 | 19.43 | 20.64 | 18.86 |
| 18-Sep-96 | 1155 | 1355 | 9.798 | 13.38 | 8.54 | 20.63 | 21.6 | 19.6 |
| 18-Sep-96 | 1355 | 1555 | 15.01 | 16.68 | 13.14 | 21.74 | 22.2 | 21.22 |
| 18-Sep-96 | 1555 | 1755 | 15.25 | 16.58 | 14.28 | 21.35 | 21.76 | 21.08 |
| 18-Sep-96 | 1755 | 1955 | 14 | 15.28 | 11.4 | 20.86 | 21.4 | 20.4 |
| 18-Sep-96 | 1955 | 2155 | 12.85 | 13.76 | 11.64 | 20.42 | 20.7 | 20.2 |
| 18-Sep-96 | 2155 | 2355 | 11.8 | 12.62 | 10.6 | 20.02 | 20.3 | 19.76 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 18-Sep-96 | 2355 | 155 | 11.05 | 11.54 | 10.32 | 19.73 | 19.9 | 19.5 |
| 19-Sep-96 | 155 | 355 | 10.64 | 11.16 | 9.96 | 19.49 | 19.7 | 19.3 |
| 19-Sep-96 | 355 | 555 | 10.3 | 10.76 | 9.3 | 19.27 | 19.4 | 19.2 |
| 19-Sep-96 | 555 | 755 | 10.69 | 26.26 | 8.963 | 18.51 | 19.2 | 11.58 |
| 19-Sep-96 | 755 | 955 | 10 | 10.72 | 8.7 | 18.96 | 19 | 18.88 |
| 19-Sep-96 | 955 | 1155 | 9.751 | 11.7 | 8.62 | 19.17 | 19.58 | 19 |
| 19-Sep-96 | 1155 | 1355 | 13.08 | 17.68 | 10.34 | 20.03 | 21.18 | 19.42 |
| 19-Sep-96 | 1355 | 1555 | 13.48 | 17.4 | 10.4 | 20.28 | 21.14 | 19.46 |
| 19-Sep-96 | 1555 | 1755 | 15.66 | 16.98 | 13.02 | 20.67 | 20.92 | 20.38 |
| 19-Sep-96 | 1755 | 1955 | 13.15 | 15.3 | 10.62 | 19.85 | 20.5 | 19.1 |
| 19-Sep-96 | 1955 | 2155 | 12.15 | 13.74 | 11.06 | 19.63 | 20 | 19.44 |
| 19-Sep-96 | 2155 | 2355 | 11.64 | 12.32 | 10.58 | 19.52 | 19.7 | 19.4 |
| 19-Sep-96 | 2355 | 155 | 10.78 | 11.66 | 9.66 | 19.21 | 19.4 | 19.1 |
| 20-Sep-96 | 155 | 355 | 10.4 | 11.06 | 9.28 | 19.09 | 19.2 | 18.9 |
| 20-Sep-96 | 355 | 555 | 9.32 | 10.44 | 8.02 | 18.62 | 18.94 | 18.4 |
| 20-Sep-96 | 555 | 755 | 8.873 | 9.2 | 7.72 | 18.37 | 18.4 | 18.3 |
| 20-Sep-96 | 755 | 955 | 8.425 | 8.82 | 7.78 | 18.23 | 18.3 | 18.1 |
| 20-Sep-96 | 955 | 1155 | 8.658 | 9.14 | 7.74 | 18.11 | 18.2 | 18.1 |
| 20-Sep-96 | 1155 | 1355 | 8.885 | 9.48 | 7.82 | 18.2 | 18.3 | 18.1 |
| 20-Sep-96 | 1355 | 1555 | 8.363 | 9.54 | 7.66 | 18.11 | 18.28 | 18.04 |
| 20-Sep-96 | 1555 | 1755 | 8.214 | 8.58 | 7.48 | 18.02 | 18.1 | 18 |
| 20-Sep-96 | 1755 | 1955 | 8.191 | 8.6 | 7.38 | 17.99 | 18 | 17.9 |
| 20-Sep-96 | 1955 | 2155 | 8.243 | 8.6 | 7.36 | 18 | 18 | 17.9 |
| 20-Sep-96 | 2155 | 2355 | 8.206 | 8.6 | 7.42 | 17.96 | 18 | 17.9 |
| 20-Sep-96 | 2355 | 155 | 8.259 | 8.6 | 7.54 | 17.9 | 17.9 | 17.9 |
| 21-Sep-96 | 155 | 355 | 8.126 | 8.46 | 7.22 | 17.9 | 17.9 | 17.9 |
| 21-Sep-96 | 355 | 555 | 7.826 | 8.22 | 6.74 | 17.9 | 17.9 | 17.9 |
| 21-Sep-96 | 555 | 755 | 7.761 | 8.1 | 7 | 17.88 | 17.9 | 17.8 |
| 21-Sep-96 | 755 | 955 | 7.978 | 8.38 | 7.32 | 17.89 | 17.9 | 17.8 |
| 21-Sep-96 | 955 | 1155 | 8.234 | 8.62 | 7.06 | 17.98 | 18.1 | 17.8 |
| 21-Sep-96 | 1155 | 1355 | 7.827 | 8.1 | 7.16 | 17.83 | 17.96 | 17.8 |
| 21-Sep-96 | 1355 | 1555 | 7.76 | 8.1 | 6.74 | 17.8 | 17.84 | 17.8 |
| 21-Sep-96 | 1555 | 1755 | 7.707 | 8.18 | 6.64 | 17.8 | 17.9 | 17.7 |
| 21-Sep-96 | 1755 | 1955 | 7.766 | 8.22 | 6.78 | 17.79 | 17.9 | 17.7 |
| 21-Sep-96 | 1955 | 2155 | 7.818 | 8.2 | 6.68 | 17.8 | 17.8 | 17.8 |
| 21-Sep-96 | 2155 | 2355 | 7.786 | 8.2 | 6.62 | 17.8 | 17.8 | 17.72 |
| 21-Sep-96 | 2355 | 155 | 7.805 | 8.1 | 6.82 | 17.73 | 17.8 | 17.7 |
| 22-Sep-96 | 155 | 355 | 7.733 | 8.1 | 6.6 | 17.7 | 17.7 | 17.7 |
| 22-Sep-96 | 355 | 555 | 7.633 | 8.12 | 6.52 | 17.7 | 17.7 | 17.7 |
| 22-Sep-96 | 555 | 755 | 7.662 | 8.04 | 6.36 | 17.64 | 17.7 | 17.6 |
| 22-Sep-96 | 755 | 955 | 7.885 | 8.36 | 6.88 | 17.68 | 17.8 | 17.6 |
| 22-Sep-96 | 955 | 1155 | 8.305 | 9 | 7.16 | 18.01 | 18.5 | 17.72 |
| 22-Sep-96 | 1155 | 1355 | 8.655 | 9.4 | 7.6 | 18.49 | 18.8 | 18.2 |
| 22-Sep-96 | 1355 | 1555 | 8.032 | 8.74 | 7.12 | 18.3 | 18.64 | 18.1 |
| 22-Sep-96 | 1555 | 1755 | 8.411 | 10.2 | 7.22 | 18.33 | 18.8 | 18.2 |
| 22-Sep-96 | 1755 | 1955 | 9.199 | 10.2 | 8.26 | 18.53 | 18.8 | 18.4 |
| 22-Sep-96 | 1955 | 2155 | 8.784 | 9.28 | 8.08 | 18.32 | 18.4 | 18.2 |
| 22-Sep-96 | 2155 | 2355 | 8.679 | 9.18 | 7.52 | 18.11 | 18.2 | 18 |
| 22-Sep-96 | 2355 | 155 | 8.545 | 8.92 | 7.74 | 17.95 | 18 | 17.9 |
| 23-Sep-96 | 155 | 355 | 8.265 | 8.8 | 7.12 | 17.81 | 17.9 | 17.7 |
| 24-Sep-96 | 355 | 555 | 8.088 | 8.5 | 6.58 | 17.7 | 17.8 | 17.68 |
| 24-Sep-96 | 555 | 755 | 7.979 | 8.3 | 7.4 | 17.61 | 17.7 | 17.5 |
| 24-Sep-96 | 755 | 955 | 8.41 | 10.95 | 6.9 | 17.52 | 17.6 | 15.8 |
| 24-Sep-96 | 955 | 1155 | 8.531 | 9.02 | 7.12 | 17.62 | 17.8 | 17.5 |
| 24-Sep-96 | 1155 | 1355 | 9.487 | 10.52 | 7.94 | 18.12 | 18.62 | 17.7 |
| 24-Sep-96 | 1355 | 1555 | 9.691 | 10.7 | 8.44 | 18.02 | 18.3 | 17.7 |
| 24-Sep-96 | 1555 | 1755 | 9.936 | 11.9 | 7.86 | 17.98 | 18.3 | 17.7 |
| 24-Sep-96 | 1755 | 1955 | 8.925 | 9.76 | 7.32 | 17.71 | 17.8 | 17.6 |
| 24-Sep-96 | 1955 | 2155 | 8.788 | 9.5 | 7.16 | 17.6 | 17.68 | 17.6 |
| 24-Sep-96 | 2155 | 2355 | 8.336 | 9.1 | 6.74 | 17.53 | 17.6 | 17.5 |
| 24-Sep-96 | 2355 | 155 | 8.421 | 8.82 | 6.98 | 17.53 | 17.6 | 17.5 |
| 24-Sep-96 | 155 | 355 | 8.351 | 8.78 | 6.38 | 17.5 | 17.5 | 17.5 |
| 24-Sep-96 | 355 | 555 | 8.108 | 8.6 | 6.56 | 17.5 | 17.5 | 17.5 |
| 24-Sep-96 | 555 | 755 | 8.039 | 8.5 | 6.74 | 17.5 | 17.5 | 17.5 |
| 24-Sep-96 | 755 | 955 | 8.312 | 20.55 | 3.756 | 17.03 | 17.6 | 12.05 |
| 24-Sep-96 | 955 | 1155 | 7.952 | 8.84 | 6.56 | 17.71 | 18 | 17.5 |
| 24-Sep-96 | 1155 | 1355 | 8.383 | 9.48 | 7.04 | 18.13 | 18.3 | 17.9 |
| 24-Sep-96 | 1355 | 1555 | 8.861 | 9.9 | 6.7 | 18.35 | 18.7 | 18.2 |
| 24-Sep-96 | 1555 | 1755 | 8.772 | 9.6 | 7.32 | 18.18 | 18.36 | 18 |
| 24-Sep-96 | 1755 | 1955 | 8.124 | 9.64 | 6.9 | 17.87 | 18.2 | 17.8 |
| 24-Sep-96 | 1955 | 2155 | 7.891 | 8.4 | 6.94 | 17.69 | 17.8 | 17.6 |
| 24-Sep-96 | 2155 | 2355 | 7.834 | 8.3 | 6.88 | 17.57 | 17.6 | 17.5 |

| Date | Start Time | End Time | Average D.O. (mg/l) | Maximum D.O. | Minimum D.O. | Average Temp. ( deg. C ) | Maximum Temp. | Minimum Temp. |
|---|---|---|---|---|---|---|---|---|
| 24-Sep-96 | 2355 | 155 | 7.722 | 8.14 | 6.82 | 17.46 | 17.5 | 17.4 |
| 25-Sep-96 | 155 | 355 | 7.517 | 7.9 | 6.42 | 17.38 | 17.4 | 17.3 |
| 25-Sep-96 | 355 | 555 | 7.599 | 7.96 | 6.82 | 17.3 | 17.4 | 17.28 |
| 25-Sep-96 | 555 | 755 | 7.524 | 7.84 | 6.56 | 17.27 | 17.3 | 17.2 |
| 25-Sep-96 | 755 | 955 | 7.594 | 8 | 6.58 | 17.3 | 17.4 | 17.2 |
| 25-Sep-96 | 955 | 1155 | 9.133 | 11.46 | 7.32 | 17.55 | 17.9 | 16.66 |
| 25-Sep-96 | 1155 | 1355 | 10.99 | 12 | 9.92 | 17.68 | 18 | 17.4 |
| 25-Sep-96 | 1355 | 1555 | 10.1 | 11.84 | 8.64 | 17.46 | 17.9 | 17.3 |
| 25-Sep-96 | 1555 | 1755 | 8.844 | 9.54 | 7.98 | 17.25 | 17.3 | 17.2 |
| 25-Sep-96 | 1755 | 1955 | 9.733 | 10.18 | 8.7 | 17.3 | 17.3 | 17.22 |
| 25-Sep-96 | 1955 | 2155 | 9.753 | 10.1 | 9.02 | 17.28 | 17.3 | 17.2 |
| 25-Sep-96 | 2155 | 2355 | 9.837 | 10.22 | 8.46 | 17.2 | 17.3 | 17.2 |
| 25-Sep-96 | 2355 | 155 | 9.792 | 10.2 | 8.76 | 17.19 | 17.2 | 17.1 |
| 26-Sep-96 | 155 | 355 | 9.861 | 10.24 | 8.78 | 17.11 | 17.2 | 17.08 |
| 26-Sep-96 | 355 | 555 | 9.818 | 10.2 | 9.04 | 17.03 | 17.1 | 17 |
| 26-Sep-96 | 555 | 755 | 9.406 | 10.1 | 7.76 | 16.98 | 17 | 16.3 |
| 26-Sep-96 | 755 | 955 | 8.559 | 8.94 | 7.66 | 16.98 | 17 | 16.9 |
| 26-Sep-96 | 955 | 1155 | 8.59 | 8.9 | 7.74 | 16.91 | 17 | 16.9 |
| 26-Sep-96 | 1155 | 1355 | 8.582 | 8.94 | 7.38 | 16.9 | 16.9 | 16.9 |
| 26-Sep-96 | 1355 | 1555 | 8.669 | 9.16 | 7.68 | 16.9 | 16.9 | 16.86 |
| 26-Sep-96 | 1555 | 1755 | 8.695 | 9.1 | 7.64 | 16.82 | 16.9 | 16.8 |
| 26-Sep-96 | 1755 | 1955 | 8.629 | 9.06 | 7.32 | 16.8 | 16.8 | 16.8 |
| 26-Sep-96 | 1955 | 2155 | 8.525 | 8.94 | 7.42 | 16.8 | 16.8 | 16.8 |
| 26-Sep-96 | 2155 | 2355 | 8.45 | 8.86 | 7.36 | 16.8 | 16.8 | 16.8 |
| 26-Sep-96 | 2355 | 155 | 8.423 | 8.88 | 6.6 | 16.8 | 16.8 | 16.72 |
| 27-Sep-96 | 155 | 355 | 8.315 | 8.7 | 7.08 | 16.75 | 16.8 | 16.7 |
| 27-Sep-96 | 355 | 555 | 8.293 | 8.62 | 7.58 | 16.7 | 16.7 | 16.7 |
| 27-Sep-96 | 555 | 755 | 8.34 | 8.64 | 7.68 | 16.7 | 16.7 | 16.62 |
| 27-Sep-96 | 755 | 955 | 8.425 | 8.8 | 7.22 | 16.7 | 16.7 | 16.6 |
| 27-Sep-96 | 955 | 1155 | 9.629 | 9.06 | 7.64 | 16.69 | 16.7 | 16.6 |
| 27-Sep-96 | 1155 | 1355 | 8.714 | 9.02 | 7.74 | 16.65 | 16.7 | 16.6 |
| 27-Sep-96 | 1355 | 1555 | 8.782 | 9.24 | 7.56 | 16.6 | 16.6 | 16.6 |
| 27-Sep-96 | 1555 | 1755 | 9.004 | 9.4 | 8.18 | 16.6 | 16.6 | 16.6 |
| 27-Sep-96 | 1755 | 1955 | 8.99 | 9.4 | 8.02 | 16.56 | 16.6 | 16.5 |
| 27-Sep-96 | 1955 | 2155 | 8.564 | 9 | 7.46 | 16.5 | 16.5 | 16.42 |
| 27-Sep-96 | 2155 | 2355 | 8.721 | 9.26 | 7.76 | 16.44 | 16.5 | 16.38 |
| 27-Sep-96 | 2355 | 155 | 8.865 | 9.3 | 7.44 | 16.33 | 16.4 | 16.3 |
| 28-Sep-96 | 155 | 355 | 8.897 | 9.3 | 7.94 | 16.3 | 16.3 | 16.2 |
| 28-Sep-96 | 355 | 555 | 8.906 | 9.26 | 8.06 | 16.23 | 16.3 | 16.2 |
| 28-Sep-96 | 555 | 755 | 8.819 | 9.2 | 7.72 | 16.18 | 16.2 | 16.1 |
| 28-Sep-96 | 755 | 955 | 8.824 | 9.34 | 7.58 | 16.11 | 16.2 | 16.1 |
| 28-Sep-96 | 955 | 1155 | 8.933 | 9.58 | 7.88 | 16.16 | 16.2 | 16.1 |
| 28-Sep-96 | 1155 | 1355 | 9.109 | 9.62 | 8.04 | 16.25 | 16.5 | 16.1 |
| 28-Sep-96 | 1355 | 1555 | 9.33 | 9.9 | 8.06 | 16.35 | 16.5 | 16.2 |
| 28-Sep-96 | 1555 | 1755 | 9.398 | 10.1 | 8.08 | 16.33 | 16.4 | 16.2 |
| 28-Sep-96 | 1755 | 1955 | 9.215 | 9.74 | 8.2 | 16.24 | 16.3 | 16.2 |
| 28-Sep-96 | 1955 | 2155 | 9.224 | 9.7 | 7.76 | 16.14 | 16.2 | 16.1 |
| 28-Sep-96 | 2155 | 2355 | 9.088 | 9.56 | 7.94 | 16.1 | 16.1 | 16.1 |
| 28-Sep-96 | 2355 | 155 | 8.973 | 9.5 | 7.56 | 16.1 | 16.1 | 16.08 |
| 29-Sep-96 | 155 | 355 | 8.817 | 9.3 | 7.16 | 16.1 | 16.1 | 16 |
| 29-Sep-96 | 355 | 555 | 8.793 | 9.4 | 7.16 | 16.07 | 16.1 | 16 |
| 29-Sep-96 | 555 | 755 | 8.862 | 9.24 | 7.54 | 16 | 16 | 15.9 |
| 29-Sep-96 | 755 | 955 | 8.815 | 9.5 | 6.92 | 16 | 16.1 | 15.92 |
| 29-Sep-96 | 955 | 1155 | 9.25 | 9.9 | 7.46 | 16.14 | 16.3 | 16 |
| 29-Sep-96 | 1155 | 1355 | 9.522 | 10.38 | 7.38 | 16.39 | 16.56 | 16.2 |
| 29-Sep-96 | 1355 | 1555 | 10.03 | 10.72 | 8.6 | 16.53 | 16.7 | 16.3 |
| 29-Sep-96 | 1555 | 1755 | 10.52 | 11.28 | 9.1 | 16.67 | 17 | 16.4 |
| 29-Sep-96 | 1755 | 1955 | 10.18 | 10.82 | 8.62 | 16.33 | 16.5 | 16.2 |
| 29-Sep-96 | 1955 | 2155 | 9.665 | 10.2 | 9.3 | 16.13 | 16.2 | 16 |
| 29-Sep-96 | 2155 | 2355 | 9.429 | 10.02 | 8.16 | 15.97 | 16 | 15.9 |
| 29-Sep-96 | 2355 | 155 | 9.342 | 9.92 | 7.52 | 15.9 | 15.9 | 15.8 |
| 30-Sep-96 | 155 | 355 | 9.223 | 9.76 | 7.8 | 15.82 | 15.9 | 15.8 |
| 30-Sep-96 | 355 | 555 | 9.185 | 9.78 | 8.06 | 15.8 | 15.8 | 15.8 |
| 30-Sep-96 | 555 | 755 | 9.063 | 9.58 | 6.94 | 15.8 | 15.8 | 15.7 |
| 30-Sep-96 | 755 | 840 | 9.404 | 9.84 | 8.76 | 15.8 | 15.84 | 15.8 |

# APPENDIX C
## Continuous Monitoring Dissolved Oxygen and Temperature Data Tables

2. June, July, August 1997

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 1-Jun-97 | 155 | 355 | 6.595 | 11.12 | 1.62 | 15.27 | 15.3 | 15.14 |
| 1-Jun-97 | 355 | 555 | 6.391 | 10.62 | 1.46 | 15.16 | 15.2 | 15.1 |
| 1-Jun-97 | 555 | 755 | 6.492 | 10.86 | 1.56 | 15.19 | 15.3 | 15.1 |
| 1-Jun-97 | 755 | 955 | 7.551 | 11.38 | 2.48 | 15.48 | 15.7 | 15.3 |
| 1-Jun-97 | 955 | 1155 | 7.187 | 11.18 | 2.52 | 15.89 | 16 | 15.6 |
| 1-Jun-97 | 1155 | 1355 | 7.835 | 11.52 | 2.26 | 16.08 | 16.3 | 15.9 |
| 1-Jun-97 | 1355 | 1555 | 7.4 | 11.18 | 3.1 | 16.17 | 16.3 | 16.08 |
| 1-Jun-97 | 1555 | 1755 | 7.679 | 11.08 | 2.56 | 16.39 | 16.5 | 16.2 |
| 1-Jun-97 | 1755 | 1955 | 7.724 | 11.16 | 2.68 | 16.37 | 16.68 | 16.3 |
| 1-Jun-97 | 1955 | 2155 | 7.675 | 11.38 | 2.92 | 16.51 | 16.6 | 16.3 |
| 1-Jun-97 | 2155 | 2355 | 7.629 | 11.18 | 2.7 | 16.33 | 16.5 | 16.2 |
| 1-Jun-97 | 2355 | 155 | 7.695 | 10.66 | 2.96 | 16.2 | 16.3 | 16.18 |
| 2-Jun-97 | 155 | 355 | 7.75 | 10.76 | 4.28 | 16.21 | 16.2 | 16.1 |
| 2-Jun-97 | 355 | 555 | 7.771 | 10.66 | 3.16 | 16.13 | 16.2 | 16.1 |
| 2-Jun-97 | 1555 | 1755 | 9.188 | 11 | 6.92 | 17.01 | 17.1 | 16.9 |
| 2-Jun-97 | 1755 | 1955 | 10.9 | 11.6 | 9.54 | 17.14 | 17.2 | 17.1 |
| 2-Jun-97 | 1955 | 2155 | 11.19 | 11.98 | 9.34 | 17.22 | 17.3 | 17.1 |
| 2-Jun-97 | 2155 | 2355 | 11.28 | 12.32 | 9.24 | 17.14 | 17.2 | 17.1 |
| 2-Jun-97 | 2355 | 155 | 10.68 | 12.16 | 7.44 | 17.07 | 17.1 | 17 |
| 3-Jun-97 | 155 | 355 | 10.89 | 13.06 | 6.78 | 17 | 17 | 17 |
| 3-Jun-97 | 355 | 555 | 10.09 | 12.42 | 6.94 | 17 | 17 | 16.92 |
| 3-Jun-97 | 555 | 755 | 10.02 | 25.14 | 6.46 | 16.88 | 17.1 | 14.98 |
| 3-Jun-97 | 755 | 955 | 9.485 | 10.26 | 8.6 | 17 | 17 | 17 |
| 3-Jun-97 | 955 | 1155 | 9.397 | 9.9 | 8.18 | 17 | 17 | 17 |
| 3-Jun-97 | 1155 | 1355 | 9.433 | 10.06 | 7.78 | 17.09 | 17.2 | 17 |
| 3-Jun-97 | 1355 | 1555 | 9.324 | 12.96 | 0 | 17.97 | 28.26 | 16.92 |
| 3-Jun-97 | 1555 | 1755 | 9.721 | 10.72 | 8 | 17.61 | 17.9 | 17.4 |
| 3-Jun-97 | 1755 | 1955 | 9.215 | 11.22 | 6.9 | 18.01 | 18.1 | 17.9 |
| 4-Jun-97 | 955 | 1155 | 10.6 | 10.82 | 10.4 | 18.49 | 18.8 | 18.3 |
| 4-Jun-97 | 1155 | 1355 | 10.73 | 11 | 10.44 | 19.06 | 20.2 | 18.56 |
| 4-Jun-97 | 1355 | 1555 | 11.11 | 11.4 | 10.64 | 19.92 | 21.78 | 18.84 |
| 4-Jun-97 | 1555 | 1755 | 11.23 | 11.54 | 10.96 | 20.66 | 21.5 | 20.06 |
| 4-Jun-97 | 1755 | 1955 | 11.3 | 11.5 | 11.06 | 20.47 | 20.8 | 20.08 |
| 4-Jun-97 | 1955 | 2155 | 11.01 | 11.32 | 10.74 | 20.27 | 20.5 | 19.9 |
| 4-Jun-97 | 2155 | 2355 | 10.64 | 10.82 | 10.22 | 20.11 | 20.4 | 19.84 |
| 4-Jun-97 | 2355 | 155 | 10.62 | 10.9 | 10.38 | 19.49 | 19.9 | 19.2 |
| 5-Jun-97 | 155 | 355 | 10.46 | 10.62 | 10.32 | 19.16 | 19.3 | 19.02 |
| 5-Jun-97 | 355 | 555 | 10.38 | 10.52 | 10.06 | 19 | 19.2 | 18.8 |
| 5-Jun-97 | 555 | 755 | 10.32 | 10.98 | 8.9 | 19.01 | 19.3 | 15.88 |
| 5-Jun-97 | 755 | 955 | 10.46 | 10.94 | 10.1 | 18.81 | 19.2 | 18.68 |
| 5-Jun-97 | 955 | 1155 | 10.45 | 10.6 | 10.18 | 19.01 | 19.3 | 18.8 |
| 5-Jun-97 | 1155 | 1355 | 10.55 | 10.8 | 10.24 | 19.36 | 19.8 | 19 |
| 5-Jun-97 | 1355 | 1555 | 10.57 | 10.8 | 10.32 | 19.49 | 19.6 | 19.32 |
| 5-Jun-97 | 1555 | 1755 | 10.5 | 10.68 | 10.24 | 19.73 | 19.82 | 19.52 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 5-Jun-97 | 1755 | 1955 | 10.16 | 10.4 | 9.9 | 19.36 | 19.6 | 19.2 |
| 5-Jun-97 | 1955 | 2155 | 10.05 | 10.22 | 9.76 | 19.11 | 19.3 | 19 |
| 5-Jun-97 | 2155 | 1955 | 9.992 | 10.2 | 9.7 | 18.94 | 19 | 18.9 |
| 5-Jun-97 | 2355 | 155 | 9.959 | 10.1 | 9.68 | 19.01 | 19.1 | 18.9 |
| 6-Jun-97 | 155 | 355 | 9.952 | 10.14 | 9.52 | 19.11 | 19.2 | 19.1 |
| 6-Jun-97 | 355 | 555 | 9.777 | 10.04 | 9.48 | 19.02 | 19.1 | 19 |
| 6-Jun-97 | 555 | 755 | 9.686 | 9.9 | 9.38 | 19.03 | 19.1 | 19 |
| 6-Jun-97 | 755 | 955 | 9.655 | 9.9 | 9.34 | 19.18 | 19.4 | 19.1 |
| 6-Jun-97 | 955 | 1155 | 9.668 | 9.8 | 9.34 | 19.54 | 19.7 | 19.36 |
| 6-Jun-97 | 1155 | 1355 | 9.78 | 9.9 | 9.64 | 19.69 | 19.8 | 19.6 |
| 6-Jun-97 | 1355 | 1555 | 9.779 | 9.9 | 9.5 | 20.2 | 20.5 | 19.8 |
| 6-Jun-97 | 1555 | 1755 | 9.771 | 9.9 | 9.6 | 20.29 | 20.4 | 20.2 |
| 6-Jun-97 | 1755 | 1955 | 9.663 | 9.9 | 9.50 | 20.09 | 20.2 | 20 |
| 6-Jun-97 | 1955 | 2155 | 9.616 | 9.78 | 9.3 | 19.93 | 20 | 19.8 |
| 6-Jun-97 | 2155 | 2355 | 9.399 | 9.62 | 9.08 | 19.72 | 19.8 | 19.7 |
| 6-Jun-97 | 2355 | 155 | 9.432 | 9.7 | 8.94 | 19.61 | 19.7 | 19.6 |
| 7-Jun-97 | 155 | 355 | 9.313 | 9.5 | 8.94 | 19.58 | 19.6 | 19.5 |
| 7-Jun-97 | 355 | 555 | 9.23 | 9.4 | 8.84 | 19.49 | 19.5 | 19.4 |
| 7-Jun-97 | 555 | 755 | 9.116 | 9.3 | 8.94 | 19.49 | 19.5 | 19.4 |
| 7-Jun-97 | 755 | 955 | 9.032 | 9.2 | 8.84 | 19.44 | 19.5 | 19.4 |
| 7-Jun-97 | 955 | 1155 | 8.921 | 9.16 | 8.6 | 19.41 | 19.5 | 19.4 |
| 7-Jun-97 | 1155 | 1355 | 8.91 | 9.1 | 8.4 | 19.4 | 19.4 | 19.4 |
| 7-Jun-97 | 1355 | 1555 | 8.898 | 9 | 8.64 | 19.39 | 19.4 | 19.3 |
| 7-Jun-97 | 1555 | 1755 | 8.817 | 9 | 8.5 | 19.3 | 19.3 | 19.3 |
| 7-Jun-97 | 1755 | 1955 | 8.746 | 8.9 | 8.36 | 19.26 | 19.3 | 19.2 |
| 7-Jun-97 | 1955 | 2155 | 8.673 | 8.8 | 8.32 | 19.2 | 19.2 | 19.12 |
| 7-Jun-97 | 2155 | 2355 | 8.583 | 8.7 | 8.24 | 19.16 | 19.2 | 19.1 |
| 7-Jun-97 | 2355 | 155 | 8.412 | 8.6 | 8.12 | 19.1 | 19.1 | 19.1 |
| 8-Jun-97 | 155 | 355 | 8.394 | 8.5 | 7.98 | 19.02 | 19.1 | 19 |
| 8-Jun-97 | 355 | 555 | 8.302 | 8.4 | 8.1 | 18.99 | 19 | 18.9 |
| 8-Jun-97 | 555 | 755 | 8.271 | 8.4 | 8.1 | 18.95 | 19 | 18.9 |
| 8-Jun-97 | 755 | 955 | 8.275 | 8.42 | 7.84 | 19.09 | 19.2 | 19 |
| 8-Jun-97 | 955 | 1155 | 8.29 | 8.5 | 7.9 | 19.3 | 19.4 | 19.2 |
| 8-Jun-97 | 1155 | 1355 | 8.226 | 8.4 | 7.86 | 19.32 | 19.4 | 19.3 |
| 8-Jun-97 | 1355 | 1555 | 8.265 | 8.52 | 7.96 | 19.49 | 20.1 | 19.4 |
| 8-Jun-97 | 1555 | 1755 | 8.355 | 8.66 | 8.08 | 19.77 | 20.02 | 19.6 |
| 8-Jun-97 | 1755 | 1955 | 8.334 | 8.4 | 8.14 | 19.64 | 19.7 | 19.5 |
| 8-Jun-97 | 1955 | 2155 | 8.322 | 8.4 | 8.12 | 19.56 | 19.6 | 19.5 |
| 8-Jun-97 | 2155 | 2355 | 8.208 | 8.4 | 8 | 19.43 | 19.5 | 19.4 |
| 8-Jun-97 | 2355 | 155 | 8.099 | 8.2 | 7.82 | 19.32 | 19.4 | 19.3 |
| 9-Jun-97 | 155 | 355 | 7.956 | 8.1 | 7.7 | 19.22 | 19.3 | 19.2 |
| 9-Jun-97 | 355 | 555 | 7.851 | 8 | 7.58 | 19.13 | 19.2 | 19.1 |
| 9-Jun-97 | 555 | 755 | 7.904 | 9.191 | 7.42 | 19.07 | 19.1 | 17.32 |
| 9-Jun-97 | 755 | 955 | 7.97 | 8.36 | 7.52 | 19.32 | 19.6 | 19.1 |
| 9-Jun-97 | 955 | 1155 | 8.218 | 8.54 | 7.68 | 19.99 | 20.4 | 19.6 |
| 9-Jun-97 | 1155 | 1355 | 8.469 | 8.8 | 8.2 | 20.5 | 20.8 | 19.8 |
| 9-Jun-97 | 1355 | 1555 | 8.919 | 9.3 | 8.52 | 20.91 | 21.1 | 20.7 |
| 9-Jun-97 | 1555 | 1755 | 9.119 | 9.3 | 8.86 | 21.55 | 22.1 | 20.9 |
| 9-Jun-97 | 1755 | 1955 | 9.212 | 9.4 | 8.94 | 21.3 | 21.66 | 20.9 |
| 9-Jun-97 | 1955 | 2155 | 9.291 | 9.44 | 8.76 | 20.8 | 21 | 20.6 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 9-Jun-97 | 2155 | 2355 | 9.641 | 10 | 8.8 | 20.47 | 20.6 | 20.4 |
| 9-Jun-97 | 2355 | 155 | 9.505 | 9.74 | 9.06 | 20.17 | 20.4 | 20 |
| 10-Jun-97 | 155 | 355 | 9.188 | 9.5 | 8.7 | 19.98 | 20.04 | 19.9 |
| 10-Jun-97 | 355 | 555 | 9.083 | 9.3 | 8.66 | 19.85 | 19.9 | 19.7 |
| 10-Jun-97 | 555 | 755 | 9.276 | 9.88 | 8.7 | 19.7 | 19.8 | 18.56 |
| 10-Jun-97 | 755 | 955 | 10.1 | 10.78 | 9.38 | 20.12 | 20.7 | 19.8 |
| 10-Jun-97 | 955 | 1155 | 11.09 | 11.86 | 10.46 | 21.43 | 21.9 | 20.66 |
| 10-Jun-97 | 1150 | 1355 | 11.76 | 12.32 | 11 | 22.39 | 22.94 | 21.9 |
| 10-Jun-97 | 1355 | 1555 | 11.91 | 12.5 | 11.1 | 22.87 | 23.6 | 22.18 |
| 10-Jun-97 | 1555 | 1755 | 12.72 | 13.6 | 12.14 | 23.34 | 23.8 | 22.9 |
| 10-Jun-97 | 1755 | 1955 | 13.38 | 13.8 | 12.38 | 23.032 | 23.44 | 22.8 |
| 10-Jun-97 | 1955 | 2155 | 13.32 | 13.72 | 12.52 | 22.59 | 22.9 | 22.5 |
| 10-Jun-97 | 2155 | 2355 | 13.2 | 13.5 | 12.52 | 22.3 | 22.5 | 22.1 |
| 10-Jun-97 | 2355 | 155 | 12.94 | 13.34 | 12.46 | 21.87 | 22.1 | 21.74 |
| 11-Jun-97 | 155 | 355 | 12.87 | 13.14 | 12.58 | 21.7 | 21.8 | 21.62 |
| 11-Jun-97 | 355 | 555 | 12.51 | 12.8 | 12.04 | 21.55 | 21.6 | 21.5 |
| 11-Jun-97 | 555 | 755 | 12.23 | 12.44 | 11.74 | 21.47 | 21.5 | 21.4 |
| 11-Jun-97 | 755 | 955 | 12.14 | 12.58 | 11.74 | 21.57 | 21.7 | 21.4 |
| 11-Jun-97 | 955 | 1155 | 12.43 | 13.04 | 8.577 | 21.79 | 22.1 | 19.96 |
| 11-Jun-97 | 1155 | 1355 | 12.85 | 13.3 | 11.92 | 21.95 | 22.3 | 21.5 |
| 11-Jun-97 | 1355 | 1555 | 13.27 | 14.06 | 12.28 | 22.38 | 23.18 | 21.6 |
| 11-Jun-97 | 1555 | 1755 | 14.19 | 14.88 | 13.52 | 23.82 | 24.54 | 22.74 |
| 11-Jun-97 | 1755 | 1955 | 14.32 | 14.92 | 13.66 | 23.74 | 24.4 | 23.2 |
| 11-Jun-97 | 1955 | 2155 | 13.92 | 14.36 | 13.42 | 23.25 | 23.72 | 22.98 |
| 11-Jun-97 | 2155 | 2355 | 13.56 | 13.86 | 13.16 | 23.06 | 23.3 | 22.66 |
| 11-Jun-97 | 2355 | 155 | 13.32 | 13.7 | 12.56 | 22.96 | 23.2 | 22.8 |
| 12-Jun-97 | 155 | 355 | 13.53 | 13.9 | 12.96 | 22.76 | 22.86 | 22.7 |
| 12-Jun-97 | 355 | 555 | 13.27 | 13.7 | 12.44 | 22.58 | 22.7 | 22.5 |
| 12-Jun-97 | 555 | 755 | 13.22 | 14 | 8.272 | 22.5 | 22.7 | 21.27 |
| 12-Jun-97 | 755 | 955 | 14.03 | 14.6 | 13.32 | 22.85 | 23.18 | 22.6 |
| 12-Jun-97 | 955 | 1155 | 14.32 | 14.8 | 13.8 | 23.53 | 24.32 | 22.82 |
| 12-Jun-97 | 1155 | 1355 | 14.45 | 14.82 | 13.78 | 24.84 | 25.6 | 23.72 |
| 12-Jun-97 | 1355 | 1555 | 14.66 | 15.14 | 14.02 | 25.98 | 26.54 | 25.06 |
| 12-Jun-97 | 1555 | 1755 | 14.39 | 14.9 | 13.78 | 27 | 27.82 | 25.04 |
| 12-Jun-97 | 1755 | 1955 | 14.53 | 15.22 | 13.8 | 27.1 | 27.56 | 26.6 |
| 12-Jun-97 | 1955 | 2155 | 14.54 | 15.08 | 14.08 | 26.14 | 26.6 | 25.7 |
| 12-Jun-97 | 2155 | 2355 | 14.21 | 14.62 | 13.74 | 25.38 | 25.7 | 25.04 |
| 12-Jun-97 | 2355 | 155 | 13.88 | 14.16 | 13.46 | 24.76 | 25.1 | 24.56 |
| 13-Jun-97 | 155 | 355 | 13.74 | 14.02 | 13.16 | 24.25 | 24.6 | 23.8 |
| 13-Jun-97 | 355 | 555 | 14.09 | 14.4 | 13.36 | 23.35 | 23.8 | 23.1 |
| 13-Jun-97 | 555 | 755 | 13.83 | 14.26 | 13.2 | 23.13 | 23.21 | 22.92 |
| 13-Jun-97 | 755 | 955 | 13.75 | 14.16 | 13 | 23.17 | 23.76 | 22.92 |
| 13-Jun-97 | 955 | 1155 | 13.65 | 14.18 | 12.7 | 23.95 | 24.92 | 22.78 |
| 13-Jun-97 | 1155 | 1355 | 13.65 | 14.1 | 12.92 | 24.9 | 25.54 | 24.6 |
| 13-Jun-97 | 1355 | 1555 | 13.39 | 14.1 | 12.56 | 25.28 | 25.7 | 24.9 |
| 13-Jun-97 | 1555 | 1755 | 12.94 | 13.5 | 11.88 | 25.03 | 25.5 | 24.6 |
| 13-Jun-97 | 1755 | 1955 | 12.41 | 12.82 | 11.92 | 24.68 | 24.9 | 24.4 |
| 13-Jun-97 | 1955 | 2155 | 11.97 | 12.5 | 11.26 | 24.13 | 24.5 | 23.9 |
| 13-Jun-97 | 2155 | 2355 | 11.68 | 12 | 11.1 | 23.81 | 23.9 | 23.7 |
| 13-Jun-97 | 2355 | 155 | 11.47 | 11.8 | 10.96 | 23.47 | 23.8 | 23.3 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 14-Jun-97 | 155 | 355 | 11.06 | 11.4 | 10.52 | 23.1 | 23.3 | 23 |
| 14-Jun-97 | 355 | 555 | 10.75 | 11.02 | 10.22 | 22.88 | 23 | 22.8 |
| 14-Jun-97 | 555 | 755 | 10.63 | 11.02 | 10.02 | 22.71 | 22.8 | 22.7 |
| 14-Jun-97 | 755 | 955 | 10.82 | 11.1 | 10.28 | 22.77 | 22.9 | 22.7 |
| 14-Jun-97 | 955 | 1155 | 10.94 | 11.2 | 10.34 | 23.14 | 23.7 | 22.9 |
| 14-Jun-97 | 1155 | 1355 | 10.88 | 11.1 | 10.28 | 24.15 | 24.9 | 23.7 |
| 14-Jun-97 | 1355 | 1555 | 10.91 | 11.2 | 10.52 | 24.69 | 25.16 | 24.08 |
| 14-Jun-97 | 1555 | 1755 | 10.97 | 11.2 | 10.62 | 25.04 | 25.2 | 24.7 |
| 14-Jun-97 | 1755 | 1955 | 11.68 | 12.3 | 11 | 24.91 | 25.18 | 24.7 |
| 14-Jun-97 | 1955 | 2155 | 11.97 | 12.22 | 11.28 | 24.4 | 24.6 | 24.1 |
| 14-Jun-97 | 2155 | 2355 | 11.7 | 12.04 | 11 | 23.95 | 24.1 | 23.8 |
| 14-Jun-97 | 2355 | 155 | 10.95 | 11.38 | 10.44 | 23.66 | 23.8 | 23.5 |
| 15-Jun-97 | 155 | 355 | 10.55 | 10.98 | 10.16 | 23.33 | 23.5 | 23.04 |
| 15-Jun-97 | 355 | 555 | 10.28 | 10.66 | 9.86 | 22.95 | 23.1 | 22.8 |
| 15-Jun-97 | 555 | 755 | 9.942 | 10.2 | 9.5 | 22.77 | 22.8 | 22.7 |
| 15-Jun-97 | 755 | 955 | 9.631 | 9.98 | 9.12 | 22.64 | 22.7 | 22.5 |
| 15-Jun-97 | 955 | 1155 | 9.071 | 9.3 | 8.62 | 22.49 | 22.6 | 22.4 |
| 15-Jun-97 | 1155 | 1355 | 8.625 | 9 | 8.1 | 22.38 | 22.6 | 22.2 |
| 15-Jun-97 | 1355 | 1555 | 8.474 | 8.8 | 7.86 | 22.36 | 22.5 | 22.16 |
| 15-Jun-97 | 1555 | 1755 | 8.465 | 8.9 | 7.98 | 22.38 | 22.5 | 22.3 |
| 15-Jun-97 | 1755 | 1955 | 8.607 | 8.9 | 8.28 | 22.46 | 22.6 | 22.3 |
| 15-Jun-97 | 1955 | 2155 | 8.44 | 8.7 | 8.08 | 22.45 | 22.5 | 22.4 |
| 15-Jun-97 | 2155 | 2355 | 8.142 | 8.36 | 7.6 | 22.31 | 22.4 | 22.2 |
| 15-Jun-97 | 2355 | 155 | 8.009 | 8.2 | 7.76 | 22.24 | 22.3 | 22.2 |
| 16-Jun-97 | 155 | 355 | 7.929 | 8.14 | 7.56 | 22.24 | 22.3 | 22.2 |
| 16-Jun-97 | 355 | 555 | 7.63 | 7.88 | 7.26 | 22.14 | 22.2 | 22.1 |
| 16-Jun-97 | 555 | 755 | 7.619 | 8.9 | 7.14 | 22.06 | 22.1 | 20.25 |
| 16-Jun-97 | 755 | 955 | 7.666 | 7.9 | 7.28 | 22.16 | 22.4 | 22.1 |
| 16-Jun-97 | 955 | 1155 | 7.624 | 7.8 | 7.3 | 22.41 | 22.6 | 22.16 |
| 16-Jun-97 | 1155 | 1355 | 7.814 | 8 | 7.3 | 22.63 | 23.1 | 22.24 |
| 16-Jun-97 | 1355 | 1555 | 7.8 | 8 | 7.16 | 22.86 | 23 | 22.7 |
| 16-Jun-97 | 1555 | 1755 | 7.751 | 8 | 7.4 | 22.84 | 23.06 | 22.7 |
| 16-Jun-97 | 1755 | 1955 | 7.509 | 7.8 | 6.78 | 22.61 | 22.9 | 22.5 |
| 16-Jun-97 | 1955 | 2155 | 7.296 | 7.5 | 6.9 | 22.42 | 22.5 | 22.3 |
| 16-Jun-97 | 2155 | 2355 | 7.341 | 7.54 | 6.86 | 22.43 | 22.5 | 22.3 |
| 16-Jun-97 | 2355 | 155 | 7.353 | 7.5 | 6.94 | 22.4 | 22.4 | 22.36 |
| 17-Jun-97 | 155 | 355 | 7.148 | 7.3 | 6.82 | 22.37 | 22.4 | 22.3 |
| 17-Jun-97 | 355 | 555 | 6.924 | 7.1 | 6.48 | 22.24 | 22.3 | 22.2 |
| 17-Jun-97 | 555 | 755 | 7.13 | 8.78 | 6.6 | 22.14 | 22.2 | 19.44 |
| 17-Jun-97 | 755 | 955 | 7.813 | 8 | 7.36 | 22.28 | 22.4 | 22.2 |
| 17-Jun-97 | 955 | 1155 | 7.828 | 8 | 7.14 | 22.55 | 22.7 | 22.4 |
| 17-Jun-97 | 1155 | 1355 | 7.778 | 8 | 7.34 | 23.08 | 23.5 | 22.7 |
| 17-Jun-97 | 1355 | 1555 | 7.744 | 7.9 | 7.42 | 23.21 | 23.48 | 23.1 |
| 17-Jun-97 | 1555 | 1755 | 7.756 | 7.92 | 7.32 | 23.69 | 24 | 23.4 |
| 17-Jun-97 | 1755 | 1955 | 7.728 | 7.9 | 7.36 | 23.64 | 24 | 23.2 |
| 17-Jun-97 | 1955 | 2155 | 7.613 | 7.8 | 7.2 | 23.12 | 23.3 | 22.92 |
| 17-Jun-97 | 2155 | 2355 | 7.555 | 7.7 | 7.18 | 23.01 | 23.2 | 22.9 |
| 17-Jun-97 | 2355 | 155 | 7.474 | 7.64 | 7 | 22.83 | 22.9 | 22.7 |
| 18-Jun-97 | 155 | 355 | 7.505 | 7.8 | 7 | 22.5 | 22.72 | 22.4 |
| 18-Jun-97 | 355 | 555 | 7.718 | 7.9 | 7.46 | 22.5 | 22.5 | 22.4 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 18-Jun-97 | 555 | 755 | 7.776 | 8.773 | 7.2 | 22.44 | 22.6 | 20.52 |
| 18-Jun-97 | 755 | 955 | 7.806 | 8.06 | 7.4 | 22.55 | 22.64 | 22.5 |
| 18-Jun-97 | 955 | 1155 | 8.047 | 8.22 | 7.34 | 22.94 | 23.4 | 22.6 |
| 18-Jun-97 | 1155 | 1355 | 7.938 | 8.1 | 7.56 | 23.61 | 24.4 | 23.02 |
| 18-Jun-97 | 1355 | 1555 | 7.97 | 8.2 | 7.46 | 23.78 | 24.88 | 23.2 |
| 18-Jun-97 | 1555 | 1755 | 7.877 | 8.1 | 7.68 | 25.13 | 25.9 | 23.8 |
| 18-Jun-97 | 1755 | 1955 | 7.882 | 8.08 | 7.52 | 25.15 | 25.6 | 24.78 |
| 18-Jun-97 | 1955 | 2155 | 7.876 | 8 | 7.48 | 24.53 | 24.8 | 24.3 |
| 18-Jun-97 | 2155 | 2355 | 7.621 | 7.8 | 7.222 | 24.03 | 24.3 | 23.8 |
| 18-Jun-97 | 2355 | 155 | 7.502 | 7.6 | 7.1 | 23.85 | 23.9 | 23.6 |
| 19-Jun-97 | 155 | 355 | 7.471 | 7.68 | 7.08 | 23.34 | 23.6 | 23 |
| 19-Jun-97 | 355 | 555 | 7.345 | 7.54 | 6.84 | 22.88 | 23.1 | 22.8 |
| 19-Jun-97 | 555 | 755 | 7.62 | 8.68 | 7.16 | 22.75 | 23 | 19.28 |
| 19-Jun-97 | 755 | 955 | 8.086 | 8.3 | 7.56 | 23.14 | 23.3 | 23 |
| 19-Jun-97 | 955 | 1155 | 7.994 | 8.18 | 7.78 | 23.24 | 23.3 | 23.2 |
| 19-Jun-97 | 1155 | 1355 | 8.027 | 8.4 | 5.18 | 23.78 | 31.16 | 23.2 |
| 19-Jun-97 | 1355 | 1555 | 7.897 | 8.14 | 7.34 | 23.69 | 23.8 | 23.6 |
| 19-Jun-97 | 1555 | 1755 | 7.771 | 7.94 | 7.42 | 24.07 | 24.4 | 23.8 |
| 19-Jun-97 | 1755 | 1955 | 7.752 | 8.02 | 7.42 | 24.17 | 24.5 | 24.04 |
| 19-Jun-97 | 1955 | 2155 | 7.572 | 7.7 | 7.28 | 24.03 | 24.1 | 23.9 |
| 19-Jun-97 | 2155 | 2355 | 7.617 | 7.8 | 7.28 | 23.9 | 23.9 | 23.8 |
| 19-Jun-97 | 2355 | 155 | 7.463 | 7.6 | 7.18 | 23.92 | 24 | 23.9 |
| 20-Jun-97 | 155 | 355 | 7.292 | 7.4 | 6.96 | 23.8 | 23.9 | 23.6 |
| 20-Jun-97 | 355 | 555 | 7.164 | 7.4 | 6.82 | 23.46 | 23.68 | 23.38 |
| 20-Jun-97 | 555 | 755 | 7.311 | 7.5 | 6.76 | 23.51 | 23.6 | 23.5 |
| 20-Jun-97 | 755 | 955 | 7.317 | 7.5 | 7 | 23.58 | 23.68 | 23.5 |
| 20-Jun-97 | 955 | 1155 | 7.315 | 7.5 | 6.92 | 23.63 | 23.8 | 23.5 |
| 20-Jun-97 | 1155 | 1355 | 7.267 | 7.4 | 6.62 | 23.7 | 23.8 | 23.7 |
| 20-Jun-97 | 1355 | 1555 | 7.1954 | 7.4 | 6.7 | 23.99 | 24.4 | 23.7 |
| 20-Jun-97 | 1555 | 1755 | 7.201 | 7.4 | 6.64 | 24.14 | 24.5 | 23.9 |
| 20-Jun-97 | 1755 | 1955 | 7.057 | 7.3 | 6.66 | 24.12 | 24.3 | 23.72 |
| 20-Jun-97 | 1955 | 2155 | 6.904 | 7.1 | 6.5 | 23.84 | 24.02 | 23.76 |
| 20-Jun-97 | 2155 | 2355 | 6.857 | 7 | 6.48 | 23.84 | 24.06 | 23.58 |
| 20-Jun-97 | 2355 | 155 | 6.757 | 6.92 | 6.38 | 23.75 | 24.4 | 23.48 |
| 21-Jun-97 | 155 | 355 | 6.715 | 6.9 | 5.26 | 24.01 | 24.32 | 23.76 |
| 21-Jun-97 | 355 | 555 | 6.669 | 6.8 | 6.12 | 23.97 | 24.1 | 23.7 |
| 21-Jun-97 | 555 | 755 | 6.7 | 6.8 | 6.46 | 23.68 | 23.8 | 23.6 |
| 21-Jun-97 | 755 | 955 | 6.538 | 6.7 | 6.22 | 23.6 | 23.7 | 23.5 |
| 21-Jun-97 | 955 | 1155 | 6.538 | 6.7 | 6.28 | 23.74 | 23.8 | 23.6 |
| 21-Jun-97 | 1155 | 1355 | 6.557 | 6.7 | 6.28 | 23.92 | 24.32 | 23.7 |
| 21-Jun-97 | 1355 | 1555 | 6.783 | 7.08 | 6.44 | 25.26 | 25.8 | 24.3 |
| 21-Jun-97 | 1555 | 1755 | 6.923 | 7.1 | 6.5 | 25.25 | 25.7 | 24.78 |
| 21-Jun-97 | 1755 | 1955 | 6.754 | 6.92 | 6.32 | 24.87 | 25 | 24.6 |
| 21-Jun-97 | 1955 | 2155 | 6.676 | 6.8 | 6.32 | 24.92 | 25.1 | 24.7 |
| 21-Jun-97 | 2155 | 2355 | 6.556 | 6.7 | 6.4 | 24.73 | 24.8 | 24.6 |
| 21-Jun-97 | 2355 | 155 | 6.439 | 6.6 | 6.06 | 24.71 | 24.8 | 24.6 |
| 22-Jun-97 | 155 | 355 | 6.333 | 6.5 | 5.96 | 24.64 | 24.8 | 24.5 |
| 22-Jun-97 | 355 | 555 | 6.366 | 6.5 | 6.16 | 24.52 | 24.6 | 24.42 |
| 22-Jun-97 | 555 | 755 | 6.497 | 6.7 | 6.1 | 24.6 | 24.7 | 24.5 |
| 22-Jun-97 | 755 | 955 | 6.651 | 6.8 | 6.4 | 24.89 | 25.16 | 24.48 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 22-Jun-97 | 955 | 1155 | 6.677 | 6.86 | 3.36 | 25.61 | 26.38 | 25.1 |
| 22-Jun-97 | 1155 | 1355 | 6.719 | 6.9 | 6.36 | 25.82 | 26.6 | 24.76 |
| 22-Jun-97 | 1355 | 1555 | 6.678 | 6.82 | 6.4 | 26.09 | 26.76 | 25.56 |
| 22-Jun-97 | 1555 | 1755 | 6.568 | 6.8 | 6.34 | 26.22 | 26.58 | 25.82 |
| 22-Jun-97 | 1755 | 1955 | 6.432 | 6.6 | 6.04 | 25.97 | 26.2 | 25.74 |
| 22-Jun-97 | 1955 | 2155 | 6.391 | 6.6 | 6.14 | 25.48 | 26.02 | 24.9 |
| 22-Jun-97 | 2155 | 2355 | 6.46 | 6.6 | 6.16 | 25.13 | 25.4 | 24.92 |
| 22-Jun-97 | 2355 | 155 | 6.531 | 6.7 | 6.24 | 25.05 | 25.2 | 24.62 |
| 23-Jun-97 | 155 | 355 | 6.604 | 6.74 | 6.16 | 25.26 | 25.4 | 25.1 |
| 23-Jun-97 | 355 | 555 | 6.705 | 6.9 | 6.4 | 25.37 | 25.4 | 24.86 |
| 23-Jun-97 | 555 | 755 | 7.063 | 12.1 | 6.44 | 25.33 | 25.7 | 24.72 |
| 23-Jun-97 | 755 | 955 | 7.192 | 7.4 | 6.92 | 25.37 | 25.8 | 24.8 |
| 23-Jun-97 | 955 | 1155 | 6.971 | 7.2 | 6.56 | 25.11 | 25.6 | 24.76 |
| 23-Jun-97 | 1155 | 1355 | 6.939 | 7.1 | 6.56 | 25.49 | 25.8 | 25.12 |
| 23-Jun-97 | 1355 | 1555 | 6.753 | 7.06 | 6.24 | 25.4 | 26 | 24.7 |
| 23-Jun-97 | 1555 | 1755 | 7.235 | 7.8 | 6.24 | 25.2 | 25.8 | 24.44 |
| 23-Jun-97 | 1755 | 1955 | 7.626 | 8.1 | 6.86 | 25.11 | 25.5 | 24.62 |
| 23-Jun-97 | 1955 | 2155 | 7.963 | 8.2 | 7.56 | 25.69 | 25.9 | 25.3 |
| 23-Jun-97 | 2155 | 2355 | 8.018 | 8.2 | 7.7 | 25.78 | 25.9 | 25.6 |
| 23-Jun-97 | 2355 | 155 | 8.043 | 8.22 | 7.64 | 25.68 | 25.8 | 25.6 |
| 24-Jun-97 | 155 | 355 | 8.013 | 8.12 | 7.58 | 25.66 | 25.7 | 25.58 |
| 24-Jun-97 | 355 | 555 | 7.991 | 8.2 | 7.44 | 25.58 | 25.6 | 25.5 |
| 24-Jun-97 | 555 | 755 | 8.08 | 8.3 | 7.74 | 25.64 | 25.8 | 25.6 |
| 24-Jun-97 | 755 | 955 | 8.209 | 8.4 | 7.58 | 25.9 | 26 | 25.7 |
| 24-Jun-97 | 955 | 1155 | 7.935 | 8.2 | 7.14 | 25.74 | 26 | 25.5 |
| 24-Jun-97 | 1155 | 1355 | 8.123 | 8.5 | 7.6 | 25.58 | 25.76 | 25.36 |
| 24-Jun-97 | 1355 | 1555 | 8.249 | 8.54 | 7.8 | 25.48 | 25.8 | 25.1 |
| 24-Jun-97 | 1555 | 1755 | 8.011 | 8.28 | 7.72 | 25.15 | 25.28 | 25 |
| 24-Jun-97 | 1755 | 1955 | 7.963 | 8.6 | 5.6 | 25.11 | 25.4 | 24.12 |
| 24-Jun-97 | 1955 | 2155 | 8.541 | 9.1 | 8.18 | 25.59 | 25.8 | 25.4 |
| 24-Jun-97 | 2155 | 2355 | 8.628 | 8.9 | 8.02 | 25.6 | 25.7 | 25.4 |
| 24-Jun-97 | 2355 | 155 | 8.595 | 8.8 | 8.3 | 25.5 | 25.5 | 25.5 |
| 25-Jun-97 | 155 | 355 | 8.703 | 8.8 | 8.54 | 25.5 | 25.5 | 25.5 |
| 25-Jun-97 | 355 | 555 | 8.585 | 8.7 | 8.34 | 25.46 | 25.5 | 25.4 |
| 25-Jun-97 | 555 | 755 | 7.72 | 10.6 | 6.34 | 25.37 | 25.4 | 24.61 |
| 25-Jun-97 | 755 | 955 | 6.68 | 6.9 | 6.4 | 25.58 | 25.9 | 25.4 |
| 25-Jun-97 | 955 | 1155 | 6.857 | 7.1 | 6.6 | 25.8 | 26.06 | 25.6 |
| 25-Jun-97 | 1155 | 1355 | 7.186 | 7.8 | 6.88 | 26.1 | 26.7 | 25.82 |
| 25-Jun-97 | 1355 | 1555 | 7.898 | 8.2 | 7.34 | 26.72 | 27.1 | 26.34 |
| 25-Jun-97 | 1555 | 1755 | 8.225 | 8.5 | 7.9 | 26.77 | 26.9 | 26.6 |
| 25-Jun-97 | 1755 | 1955 | 8.224 | 8.6 | 7.8 | 26.68 | 26.8 | 26.46 |
| 25-Jun-97 | 1955 | 2155 | 8.023 | 8.2 | 7.72 | 26.51 | 26.7 | 26.4 |
| 25-Jun-97 | 2155 | 2355 | 7.71 | 8.1 | 7.16 | 26.14 | 26.5 | 25.9 |
| 25-Jun-97 | 2355 | 155 | 7.154 | 7.66 | 6.7 | 25.83 | 26 | 25.7 |
| 26-Jun-97 | 155 | 355 | 6.671 | 6.9 | 6.34 | 25.71 | 25.8 | 25.6 |
| 26-Jun-97 | 355 | 555 | 6.293 | 6.5 | 6.1 | 25.67 | 25.7 | 25.6 |
| 26-Jun-97 | 555 | 755 | 6.27 | 9.574 | 5.9 | 25.54 | 25.7 | 20.12 |
| 26-Jun-97 | 755 | 955 | 6.21 | 6.3 | 5.92 | 25.88 | 26.2 | 25.7 |
| 26-Jun-97 | 955 | 1155 | 6.378 | 6.6 | 6 | 26.3 | 26.84 | 26 |
| 26-Jun-97 | 1155 | 1355 | 6.891 | 7.3 | 6.5 | 27.11 | 27.78 | 26.78 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 26-Jun-97 | 1355 | 1555 | 8.23 | 9.08 | 7.2 | 27.86 | 28.28 | 27.58 |
| 26-Jun-97 | 1555 | 1755 | 8.391 | 9 | 7.76 | 28.26 | 28.9 | 27.76 |
| 26-Jun-97 | 1755 | 1955 | 7.988 | 8.26 | 7.74 | 28.08 | 28.5 | 27.34 |
| 26-Jun-97 | 1955 | 2155 | 7.531 | 7.9 | 6.86 | 27.21 | 27.6 | 26.68 |
| 26-Jun-97 | 2155 | 2355 | 7.3 | 7.52 | 6.74 | 26.91 | 27.06 | 26.6 |
| 26-Jun-97 | 2355 | 155 | 7.511 | 7.8 | 7.24 | 26.85 | 26.9 | 26.72 |
| 27-Jun-97 | 155 | 355 | 7.539 | 7.7 | 7.4 | 26.66 | 26.8 | 26.56 |
| 27-Jun-97 | 355 | 555 | 7.303 | 7.5 | 6.84 | 26.63 | 26.7 | 26.6 |
| 27-Jun-97 | 555 | 755 | 7.191 | 7.52 | 6.8 | 26.52 | 26.6 | 26.5 |
| 27-Jun-97 | 755 | 955 | 7.102 | 7.7 | 6.34 | 26.55 | 26.8 | 26.4 |
| 27-Jun-97 | 955 | 1155 | 6.689 | 7.7 | 5.8 | 26.62 | 26.84 | 26.4 |
| 27-Jun-97 | 1155 | 1355 | 6.431 | 6.7 | 5.78 | 26.68 | 27.02 | 26.4 |
| 27-Jun-97 | 1355 | 1555 | 6.304 | 6.7 | 5.7 | 26.64 | 26.9 | 26.4 |
| 27-Jun-97 | 1555 | 1755 | 6.106 | 6.3 | 5.7 | 26.41 | 26.6 | 26.2 |
| 27-Jun-97 | 1755 | 1955 | 5.743 | 6.1 | 5.34 | 26.06 | 26.3 | 26 |
| 27-Jun-97 | 1955 | 2155 | 6.004 | 6.2 | 5.16 | 26.09 | 26.1 | 25.9 |
| 27-Jun-97 | 2155 | 2355 | 5.873 | 6 | 5.5 | 26.03 | 26.1 | 26 |
| 27-Jun-97 | 2355 | 155 | 5.887 | 6.1 | 5.7 | 26 | 26.1 | 26 |
| 28-Jun-97 | 155 | 355 | 6.071 | 6.4 | 5.7 | 26 | 26.02 | 26 |
| 28-Jun-97 | 355 | 555 | 6.145 | 6.4 | 5.9 | 26.08 | 26.1 | 26 |
| 28-Jun-97 | 555 | 755 | 6.328 | 6.5 | 6.08 | 26.05 | 26.2 | 26 |
| 28-Jun-97 | 755 | 955 | 6.565 | 6.8 | 6.26 | 26.39 | 26.8 | 26.12 |
| 28-Jun-97 | 955 | 1155 | 7.34 | 7.8 | 6.38 | 26.87 | 27.2 | 26.6 |
| 28-Jun-97 | 1155 | 1355 | 7.389 | 7.82 | 6.96 | 26.76 | 27.1 | 26.52 |
| 28-Jun-97 | 1355 | 1555 | 7.415 | 8.16 | 6.94 | 27.09 | 27.92 | 26.52 |
| 28-Jun-97 | 1555 | 1755 | 6.97 | 7.5 | 6.5 | 26.63 | 27.1 | 26.3 |
| 28-Jun-97 | 1755 | 1955 | 6.672 | 7 | 6.3 | 26.4 | 26.6 | 26.3 |
| 28-Jun-97 | 1955 | 2155 | 6.135 | 6.9 | 5.2 | 26.19 | 26.5 | 25.9 |
| 28-Jun-97 | 2155 | 2355 | 6.774 | 7 | 6.34 | 26.58 | 26.7 | 26.4 |
| 28-Jun-97 | 2355 | 155 | 6.826 | 7 | 6.44 | 26.54 | 26.6 | 26.4 |
| 29-Jun-97 | 155 | 355 | 6.708 | 6.9 | 6.48 | 26.39 | 26.5 | 26.24 |
| 29-Jun-97 | 355 | 555 | 6.636 | 6.8 | 6.5 | 26.3 | 26.4 | 26.3 |
| 29-Jun-97 | 555 | 755 | 6.739 | 7.2 | 6.5 | 26.3 | 26.4 | 26.3 |
| 29-Jun-97 | 755 | 955 | 7.415 | 7.78 | 6.98 | 26.7 | 27.2 | 26.4 |
| 29-Jun-97 | 955 | 1155 | 7.982 | 8.7 | 7.3 | 27.24 | 27.7 | 26.9 |
| 29-Jun-97 | 1155 | 1355 | 8.771 | 9.5 | 7.48 | 27.13 | 27.5 | 26.7 |
| 29-Jun-97 | 1355 | 1555 | 8.473 | 9.56 | 7.36 | 27.16 | 27.84 | 26.7 |
| 29-Jun-97 | 1555 | 1755 | 7.397 | 8.78 | 6.32 | 26.78 | 27.6 | 26.5 |
| 29-Jun-97 | 1755 | 1955 | 6.953 | 7.6 | 6.26 | 26.52 | 26.7 | 26.4 |
| 29-Jun-97 | 1955 | 2155 | 6.544 | 6.8 | 6.1 | 26.36 | 26.4 | 26.22 |
| 29-Jun-97 | 2155 | 2355 | 6.593 | 6.86 | 6.32 | 26.3 | 26.32 | 26.3 |
| 29-Jun-97 | 2355 | 155 | 6.501 | 6.7 | 6.12 | 26.3 | 26.3 | 26.2 |
| 30-Jun-97 | 155 | 355 | 6.55 | 6.7 | 6.26 | 26.28 | 26.3 | 26.2 |
| 30-Jun-97 | 355 | 555 | 6.426 | 6.6 | 6.22 | 26.24 | 26.3 | 26.2 |
| 30-Jun-97 | 555 | 755 | 6.523 | 6.7 | 6.2 | 26.14 | 26.2 | 26 |
| 30-Jun-97 | 755 | 955 | 6.555 | 6.9 | 6.22 | 26.1 | 26.2 | 26 |
| 30-Jun-97 | 955 | 1155 | 6.917 | 7.3 | 6.44 | 26.39 | 26.7 | 26.2 |
| 30-Jun-97 | 1155 | 1355 | 7.322 | 8.02 | 6.82 | 27.69 | 28.7 | 26.6 |
| 30-Jun-97 | 1355 | 1555 | 8.198 | 9.42 | 7.4 | 28.65 | 29.6 | 27.52 |
| 30-Jun-97 | 1555 | 1755 | 10.25 | 12.38 | 8.58 | 29.76 | 30.1 | 29.5 |

Continous D.O. June 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 30-Jun-97 | 1755 | 1955 | 12.52 | 15.08 | 9.62 | 29.5 | 29.8 | 29.3 |
| 30-Jun-97 | 1955 | 2155 | 14.79 | 15.56 | 13.8 | 28.98 | 29.4 | 28.6 |
| 30-Jun-97 | 2155 | 2355 | 13.93 | 14.62 | 13.08 | 28.53 | 28.8 | 28.3 |
| 30-Jun-97 | 2355 | 155 | 12.88 | 13.64 | 11.94 | 28.13 | 28.34 | 27.94 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 1-Jul-97 | 155 | 355 | 12.19 | 12.86 | 11.26 | 27.81 | 28 | 27.6 |
| 1-Jul-97 | 355 | 555 | 11.07 | 12.1 | 10.34 | 27.48 | 27.6 | 27.34 |
| 1-Jul-97 | 555 | 755 | 9.268 | 11.1 | 7.96 | 27.07 | 27.4 | 26.8 |
| 1-Jul-97 | 755 | 955 | 10.14 | 25.26 | 7.121 | 27.03 | 31.24 | 24.52 |
| 1-Jul-97 | 955 | 1155 | 11.66 | 16.22 | 8.54 | 27.21 | 27.98 | 26.68 |
| 1-Jul-97 | 1155 | 1355 | 15.96 | 18.46 | 10.28 | 28.06 | 29.22 | 27.16 |
| 1-Jul-97 | 1355 | 1555 | 16.15 | 20.16 | 11.36 | 28.52 | 29.52 | 27.3 |
| 1-Jul-97 | 1555 | 1755 | 14.31 | 17.46 | 10.86 | 28.18 | 30.08 | 27.16 |
| 1-Jul-97 | 1755 | 1955 | 16.35 | 20.26 | 10.08 | 27.79 | 28.9 | 27 |
| 1-Jul-97 | 1955 | 2155 | 16.18 | 17.94 | 13.62 | 28.08 | 28.4 | 27.3 |
| 1-Jul-97 | 2355 | 155 | 13.76 | 14.78 | 11.46 | 27.43 | 27.6 | 27.2 |
| 1-Jul-97 | 2355 | 2155 | 13.28 | 16.54 | 7.78 | 27.52 | 28.2 | 26.6 |
| 2-Jul-97 | 155 | 355 | 11.19 | 14.3 | 8.62 | 27.04 | 27.46 | 26.7 |
| 2-Jul-97 | 355 | 555 | 11.15 | 12.3 | 10.08 | 27.1 | 27.4 | 26.8 |
| 2-Jul-97 | 555 | 755 | 12.35 | 14.76 | 7.9 | 27.24 | 27.5 | 25.33 |
| 2-Jul-97 | 755 | 955 | 10.84 | 13.72 | 8.6 | 26.99 | 27.3 | 26.7 |
| 2-Jul-97 | 955 | 1155 | 8.118 | 9.12 | 7.06 | 26.66 | 26.84 | 26.4 |
| 2-Jul-97 | 1155 | 1355 | 6.117 | 7.72 | 4.04 | 26.26 | 26.5 | 25.9 |
| 2-Jul-97 | 1355 | 1555 | 6.748 | 7.28 | 5.06 | 26.43 | 26.5 | 26 |
| 2-Jul-97 | 1555 | 1755 | 7.09 | 7.9 | 5.48 | 26.37 | 26.5 | 26.16 |
| 2-Jul-97 | 1755 | 1955 | 7.088 | 7.52 | 6.4 | 26.27 | 26.34 | 26.2 |
| 2-Jul-97 | 2155 | 2355 | 6.292 | 6.6 | 5.82 | 26.04 | 26.1 | 26 |
| 2-Jul-97 | 2155 | 1955 | 6.472 | 6.9 | 5.9 | 26.14 | 26.2 | 26.1 |
| 2-Jul-97 | 2355 | 155 | 5.864 | 6.2 | 5.38 | 25.98 | 26.08 | 25.9 |
| 3-Jul-97 | 155 | 355 | 6.085 | 6.28 | 5.8 | 25.9 | 25.9 | 25.9 |
| 3-Jul-97 | 355 | 555 | 5.863 | 6.1 | 5.44 | 25.89 | 25.9 | 25.8 |
| 3-Jul-97 | 555 | 755 | 5.985 | 6.2 | 5.52 | 25.8 | 25.9 | 25.8 |
| 3-Jul-97 | 755 | 955 | 6.182 | 6.4 | 5.58 | 25.89 | 25.9 | 25.8 |
| 3-Jul-97 | 955 | 1155 | 6.638 | 7.46 | 5.98 | 25.91 | 26 | 25.88 |
| 3-Jul-97 | 1155 | 1355 | 6.645 | 7.3 | 6.02 | 26 | 26.1 | 25.96 |
| 3-Jul-97 | 1355 | 1155 | 6.407 | 6.72 | 5.68 | 26 | 26.04 | 26 |
| 3-Jul-97 | 1555 | 1755 | 6.236 | 6.7 | 5.76 | 26 | 26.1 | 25.92 |
| 3-Jul-97 | 1755 | 1955 | 6.503 | 6.9 | 5.92 | 25.91 | 26 | 25.8 |
| 3-Jul-97 | 1955 | 2155 | 6.045 | 6.3 | 5.48 | 25.83 | 25.9 | 25.74 |
| 3-Jul-97 | 2155 | 2355 | 5.729 | 6 | 5.26 | 25.7 | 25.8 | 25.6 |
| 3-Jul-97 | 2355 | 155 | 5.665 | 5.9 | 5.42 | 25.6 | 25.7 | 25.5 |
| 4-Jul-97 | 155 | 2355 | 5.233 | 5.4 | 4.86 | 24.49 | 24.54 | 24.4 |
| 4-Jul-97 | 155 | 355 | 5.338 | 5.6 | 4.96 | 25.46 | 25.52 | 25.4 |
| 4-Jul-97 | 355 | 555 | 5.422 | 5.62 | 5.02 | 25.35 | 25.4 | 25.3 |
| 4-Jul-97 | 555 | 755 | 5.286 | 5.4 | 4.98 | 25.25 | 25.3 | 25.2 |
| 4-Jul-97 | 755 | 955 | 5.053 | 5.22 | 4.74 | 25.12 | 25.2 | 25 |
| 4-Jul-97 | 955 | 1155 | 5.188 | 6.7 | 4.62 | 24.99 | 25.1 | 24.9 |
| 4-Jul-97 | 1155 | 1355 | 5.995 | 6.6 | 5.22 | 25.03 | 25.28 | 24.9 |
| 4-Jul-97 | 1355 | 1555 | 6.165 | 7.12 | 5.3 | 25.1 | 25.28 | 24.9 |
| 4-Jul-97 | 1555 | 1755 | 7.124 | 8 | 5.8 | 25.07 | 25.2 | 25 |
| 4-Jul-97 | 1755 | 1955 | 7.567 | 8.94 | 6.84 | 25 | 25.1 | 24.9 |
| 4-Jul-97 | 1955 | 2155 | 6.364 | 7 | 5.9 | 24.81 | 24.9 | 24.7 |
| 4-Jul-97 | 2155 | 2355 | 5.567 | 6.1 | 5.1 | 24.61 | 24.7 | 24.5 |
| 5-Jul-97 | 155 | 355 | 5.296 | 5.4 | 5.18 | 24.41 | 24.5 | 24.3 |
| 5-Jul-97 | 355 | 555 | 5.155 | 5.3 | 5 | 24.25 | 24.4 | 24.2 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 5-Jul-97 | 555 | 755 | 5.378 | 5.76 | 5.08 | 24.13 | 24.2 | 24 |
| 5-Jul-97 | 755 | 955 | 5.711 | 6.5 | 5.2 | 24.12 | 24.3 | 24 |
| 5-Jul-97 | 955 | 1155 | 6.14 | 6.7 | 5.36 | 24.19 | 24.5 | 24 |
| 5-Jul-97 | 1155 | 1355 | 6.184 | 6.6 | 5.54 | 24.22 | 24.34 | 24 |
| 5-Jul-97 | 1355 | 1555 | 6.408 | 7.6 | 5.38 | 24.29 | 24.5 | 23.9 |
| 5-Jul-97 | 1555 | 1755 | 6.027 | 7.28 | 5.14 | 23.97 | 24.2 | 23.8 |
| 5-Jul-97 | 1755 | 1955 | 6.431 | 7.2 | 5.96 | 23.91 | 24.1 | 23.8 |
| 5-Jul-97 | 1955 | 2155 | 6.54 | 6.7 | 6.2 | 23.75 | 23.8 | 23.6 |
| 5-Jul-97 | 2155 | 2355 | 6.743 | 7 | 6.5 | 23.78 | 23.8 | 23.68 |
| 5-Jul-97 | 2355 | 155 | 6.693 | 6.9 | 5.96 | 23.73 | 23.9 | 23.5 |
| 6-Jul-97 | 155 | 355 | 6.534 | 6.8 | 6.22 | 23.39 | 23.5 | 23.3 |
| 6-Jul-97 | 355 | 555 | 6.245 | 6.5 | 5.5 | 23.29 | 23.4 | 23.2 |
| 6-Jul-97 | 555 | 755 | 6.057 | 6.9 | 5.5 | 23.24 | 23.4 | 23.1 |
| 6-Jul-97 | 755 | 955 | 7.342 | 8 | 6.54 | 23.27 | 23.5 | 23.1 |
| 6-Jul-97 | 955 | 1155 | 8.602 | 9.56 | 7.44 | 23.69 | 24.04 | 23.4 |
| 6-Jul-97 | 1155 | 1355 | 8.351 | 9.34 | 7.2 | 23.73 | 24.02 | 23.3 |
| 6-Jul-97 | 1355 | 1555 | 10.33 | 11.14 | 8.94 | 24.17 | 24.5 | 23.7 |
| 6-Jul-97 | 1555 | 1755 | 11.12 | 12.52 | 9.72 | 24.33 | 24.64 | 23.92 |
| 6-Jul-97 | 1755 | 1955 | 11.43 | 13.36 | 8.62 | 23.93 | 24.1 | 23.6 |
| 6-Jul-97 | 1955 | 2155 | 11.24 | 11.9 | 9.66 | 23.68 | 23.8 | 23.5 |
| 6-Jul-97 | 2155 | 2355 | 11.14 | 11.64 | 10.46 | 23.46 | 23.56 | 23.3 |
| 6-Jul-97 | 2355 | 155 | 10 | 10.9 | 8.96 | 23.07 | 23.4 | 22.8 |
| 7-Jul-97 | 155 | 355 | 9.348 | 9.98 | 8.64 | 22.77 | 22.9 | 22.6 |
| 7-Jul-97 | 355 | 555 | 8.496 | 9.3 | 7.64 | 22.56 | 22.7 | 22.4 |
| 7-Jul-97 | 555 | 755 | 7.881 | 9.262 | 7.04 | 22.3 | 22.5 | 19.81 |
| 7-Jul-97 | 755 | 955 | 8.194 | 10.62 | 6.94 | 22.69 | 23.2 | 22.4 |
| 7-Jul-97 | 955 | 1155 | 8.674 | 10.48 | 7.5 | 23.16 | 24.14 | 22.72 |
| 7-Jul-97 | 1155 | 1355 | 10.42 | 11.4 | 9.04 | 24.13 | 24.82 | 23.38 |
| 7-Jul-97 | 1355 | 1555 | 9.6 | 10.98 | 8.04 | 23.76 | 24.44 | 22.8 |
| 7-Jul-97 | 1555 | 1755 | 9.203 | 11.08 | 7.54 | 23 | 23.5 | 22.5 |
| 7-Jul-97 | 1755 | 1955 | 8.816 | 10.14 | 7.5 | 22.71 | 22.98 | 22.4 |
| 7-Jul-97 | 1955 | 2155 | 9.794 | 10.58 | 8.58 | 22.92 | 23.1 | 22.66 |
| 7-Jul-97 | 2155 | 2355 | 9.34 | 10 | 8.34 | 22.86 | 23 | 22.62 |
| 7-Jul-97 | 2355 | 155 | 9.455 | 10 | 8.62 | 22.89 | 23 | 22.8 |
| 8-Jul-97 | 155 | 355 | 8.432 | 9.3 | 7.3 | 22.59 | 22.8 | 22.3 |
| 8-Jul-97 | 355 | 555 | 7.772 | 9.02 | 6.82 | 22.37 | 22.4 | 22.22 |
| 8-Jul-97 | 555 | 755 | 7.317 | 8.1 | 6.72 | 22.32 | 22.4 | 22.2 |
| 8-Jul-97 | 755 | 955 | 9.274 | 11 | 7.08 | 22.59 | 23.2 | 21.37 |
| 8-Jul-97 | 955 | 1155 | 11.07 | 12.6 | 9.18 | 23.18 | 23.8 | 22.66 |
| 8-Jul-97 | 1155 | 1355 | 12.08 | 13.16 | 10.54 | 23.59 | 23.98 | 23.22 |
| 8-Jul-97 | 1355 | 1555 | 12.01 | 12.88 | 10.94 | 23.62 | 23.8 | 23.46 |
| 8-Jul-97 | 1555 | 1755 | 11.52 | 12.14 | 10.54 | 23.54 | 23.62 | 23.4 |
| 8-Jul-97 | 1755 | 1955 | 10.63 | 11.7 | 9.28 | 23.02 | 23.4 | 22.7 |
| 8-Jul-97 | 1955 | 2155 | 9.202 | 9.86 | 8 | 22.5 | 22.7 | 22.4 |
| 8-Jul-97 | 2155 | 2355 | 8.424 | 9 | 7.58 | 22.28 | 22.4 | 22.2 |
| 8-Jul-97 | 2355 | 155 | 7.835 | 8.5 | 7 | 22.13 | 22.2 | 22 |
| 9-Jul-97 | 155 | 355 | 7.389 | 7.88 | 6.68 | 22 | 22.1 | 22 |
| 9-Jul-97 | 355 | 555 | 7.189 | 7.6 | 6.42 | 21.94 | 22 | 21.9 |
| 9-Jul-97 | 555 | 755 | 7.155 | 9.617 | 6.28 | 21.77 | 21.9 | 18.91 |
| 9-Jul-97 | 755 | 955 | 7.184 | 7.44 | 6.48 | 21.9 | 21.9 | 21.9 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 9-Jul-97 | 955 | 1155 | 7.357 | 8.08 | 6.36 | 22.11 | 22.3 | 21.9 |
| 9-Jul-97 | 1155 | 1355 | 8.184 | 9.2 | 7.08 | 22.49 | 22.8 | 22.2 |
| 9-Jul-97 | 1355 | 1555 | 8.848 | 9.5 | 7.84 | 22.81 | 22.92 | 22.6 |
| 9-Jul-97 | 1555 | 1755 | 8.918 | 9.68 | 7.96 | 22.81 | 22.9 | 22.68 |
| 9-Jul-97 | 1755 | 1955 | 9.332 | 10 | 8.36 | 22.81 | 22.9 | 22.7 |
| 9-Jul-97 | 1955 | 2155 | 8.864 | 9.56 | 7.92 | 22.68 | 22.8 | 22.6 |
| 9-Jul-97 | 2155 | 2355 | 8.387 | 9.02 | 7.38 | 22.54 | 22.7 | 22.34 |
| 9-Jul-97 | 2355 | 155 | 7.595 | 8.08 | 6.52 | 22.2 | 22.4 | 22.1 |
| 10-Jul-97 | 155 | 355 | 7.194 | 7.6 | 6.42 | 22.05 | 22.1 | 22 |
| 10-Jul-97 | 355 | 555 | 6.997 | 7.4 | 6.4 | 22 | 22.06 | 21.94 |
| 10-Jul-97 | 555 | 755 | 6.948 | 14.55 | 6.08 | 21.93 | 24.9 | 18.98 |
| 10-Jul-97 | 755 | 955 | 7.174 | 8.1 | 6.12 | 22.29 | 22.8 | 22 |
| 10-Jul-97 | 955 | 1155 | 9.403 | 10.82 | 7.14 | 23.04 | 23.44 | 22.62 |
| 10-Jul-97 | 1155 | 1355 | 9.252 | 10.1 | 8.16 | 23.01 | 23.46 | 22.58 |
| 10-Jul-97 | 1355 | 1555 | 10.62 | 12.42 | 8.14 | 23.92 | 24.64 | 22.64 |
| 10-Jul-97 | 1555 | 1755 | 12.34 | 13.4 | 10.84 | 24.44 | 24.8 | 23.96 |
| 10-Jul-97 | 1755 | 1955 | 11.77 | 13.5 | 9.18 | 23.79 | 24.6 | 22.8 |
| 10-Jul-97 | 1955 | 2155 | 10.89 | 11.6 | 9.38 | 23.4 | 23.5 | 23.16 |
| 10-Jul-97 | 2155 | 2355 | 10.21 | 10.92 | 8.94 | 23.24 | 23.3 | 23.04 |
| 10-Jul-97 | 2355 | 155 | 9.803 | 10.6 | 8.62 | 23 | 23.2 | 22.9 |
| 11-Jul-97 | 155 | 355 | 9.581 | 10.48 | 8.68 | 22.85 | 23.06 | 22.7 |
| 11-Jul-97 | 355 | 555 | 9.459 | 10.38 | 8.44 | 22.99 | 23.1 | 22.9 |
| 11-Jul-97 | 555 | 755 | 8.334 | 10.46 | 8.3 | 23.03 | 23.2 | 22.9 |
| 11-Jul-97 | 755 | 955 | 9.522 | 11.34 | 8.2 | 23.19 | 23.58 | 23 |
| 11-Jul-97 | 955 | 1155 | 11.97 | 13.16 | 9.64 | 23.9 | 24.22 | 23.5 |
| 11-Jul-97 | 1155 | 1355 | 10.74 | 13.36 | 8.86 | 23.67 | 24.24 | 23.26 |
| 11-Jul-97 | 1355 | 1555 | 11.28 | 14.06 | 8.52 | 24.01 | 25.06 | 23.2 |
| 11-Jul-97 | 1555 | 1755 | 12.51 | 13.94 | 11 | 24.32 | 24.8 | 24 |
| 11-Jul-97 | 1755 | 1955 | 12.66 | 14.3 | 11.26 | 24.45 | 24.8 | 24.14 |
| 11-Jul-97 | 1955 | 2155 | 11.65 | 12.64 | 10.2 | 24.07 | 24.3 | 23.72 |
| 11-Jul-97 | 2155 | 2355 | 10.79 | 11.7 | 9.68 | 23.84 | 23.92 | 23.62 |
| 11-Jul-97 | 2355 | 155 | 10.52 | 11.3 | 9.38 | 23.71 | 23.8 | 23.56 |
| 12-Jul-97 | 155 | 355 | 10.24 | 11.12 | 9.18 | 23.72 | 23.86 | 23.56 |
| 12-Jul-97 | 355 | 555 | 10.54 | 11.4 | 9.08 | 23.88 | 24 | 23.78 |
| 12-Jul-97 | 555 | 755 | 10.73 | 11.54 | 9.44 | 23.93 | 24 | 23.8 |
| 12-Jul-97 | 755 | 955 | 12.73 | 15.48 | 9.96 | 24.31 | 24.9 | 23.9 |
| 12-Jul-97 | 955 | 1155 | 12.42 | 15.06 | 10.52 | 24.39 | 24.9 | 24.04 |
| 12-Jul-97 | 1155 | 1355 | 10.68 | 12.18 | 9.48 | 24.07 | 24.3 | 23.9 |
| 12-Jul-97 | 1355 | 1555 | 11.29 | 14.2 | 9.16 | 24.3 | 24.82 | 24 |
| 12-Jul-97 | 1555 | 1755 | 12.69 | 14.4 | 11.12 | 24.71 | 24.92 | 24.5 |
| 12-Jul-97 | 1755 | 1955 | 12.16 | 13.06 | 10.94 | 24.65 | 24.76 | 24.32 |
| 12-Jul-97 | 1955 | 2155 | 11.85 | 13.02 | 10.48 | 24.63 | 24.7 | 24.44 |
| 12-Jul-97 | 2155 | 2355 | 10.74 | 11.72 | 9.46 | 24.34 | 24.54 | 24.12 |
| 12-Jul-97 | 2355 | 155 | 10.12 | 10.82 | 9.04 | 24.23 | 24.4 | 24 |
| 13-Jul-97 | 155 | 355 | 9.843 | 10.3 | 8.92 | 24.19 | 24.3 | 24.06 |
| 13-Jul-97 | 355 | 555 | 9.613 | 10.1 | 8.56 | 24.24 | 24.3 | 24.2 |
| 13-Jul-97 | 555 | 755 | 9.754 | 10.7 | 8.36 | 24.29 | 24.48 | 24.2 |
| 13-Jul-97 | 755 | 955 | 10.09 | 11.3 | 8.5 | 24.38 | 24.52 | 24.08 |
| 13-Jul-97 | 955 | 1155 | 9.691 | 10.48 | 8.68 | 24.26 | 24.4 | 24.12 |
| 13-Jul-97 | 1155 | 1355 | 10.02 | 10.76 | 9 | 24.48 | 24.7 | 24.18 |

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 13-Jul-97 | 1355 | 1555 | 9.683 | 10.94 | 8.34 | 24.48 | 24.9 | 24.06 |
| 13-Jul-97 | 1555 | 1755 | 9.614 | 10.72 | 8.3 | 24.52 | 24.82 | 24.2 |
| 13-Jul-97 | 1755 | 1955 | 9.397 | 10 | 8.34 | 24.5 | 24.6 | 24.36 |
| 13-Jul-97 | 1955 | 2155 | 9.627 | 10.3 | 8.5 | 24.68 | 24.8 | 24.5 |
| 13-Jul-97 | 2155 | 2355 | 9.697 | 10.28 | 8.72 | 24.81 | 24.9 | 24.7 |
| 13-Jul-97 | 2355 | 155 | 9.659 | 10.1 | 8.56 | 24.9 | 24.94 | 24.8 |
| 14-Jul-97 | 155 | 355 | 9.217 | 9.8 | 8.36 | 24.78 | 24.9 | 24.7 |
| 14-Jul-97 | 355 | 555 | 8.968 | 9.4 | 8.04 | 24.63 | 24.7 | 24.6 |
| 14-Jul-97 | 555 | 755 | 8.832 | 9.8 | 7.152 | 24.6 | 24.7 | 22.5 |
| 14-Jul-97 | 755 | 955 | 9.85 | 11.3 | 8.6 | 24.85 | 25.3 | 24.7 |
| 14-Jul-97 | 955 | 1155 | 9.93 | 11 | 8.6 | 25.04 | 25.42 | 24.8 |
| 14-Jul-97 | 1155 | 1355 | 10.16 | 11.4 | 8.9 | 25.25 | 25.78 | 24.96 |
| 14-Jul-97 | 1355 | 1555 | 9.447 | 10.52 | 8.5 | 25.02 | 25.26 | 24.78 |
| 14-Jul-97 | 1555 | 1755 | 8.622 | 9.48 | 7.6 | 24.85 | 25.3 | 24.5 |
| 14-Jul-97 | 1755 | 1955 | 9.818 | 11.14 | 8.1 | 25.23 | 25.5 | 24.84 |
| 14-Jul-97 | 1955 | 2155 | 10.23 | 11.24 | 8.54 | 25.37 | 25.5 | 25.24 |
| 14-Jul-97 | 2155 | 2355 | 10.36 | 10.92 | 9.16 | 25.43 | 25.5 | 25.3 |
| 14-Jul-97 | 2355 | 155 | 9.688 | 10.52 | 8.66 | 25.19 | 25.4 | 25 |
| 15-Jul-97 | 155 | 355 | 8.88 | 9.38 | 7.68 | 24.99 | 25.08 | 24.9 |
| 15-Jul-97 | 355 | 555 | 8.281 | 9.12 | 7.32 | 24.91 | 25 | 24.8 |
| 15-Jul-97 | 555 | 755 | 8.158 | 8.68 | 7.68 | 24.85 | 24.9 | 24.8 |
| 15-Jul-97 | 755 | 955 | 8.502 | 9.78 | 7.3 | 25.05 | 25.46 | 24.9 |
| 15-Jul-97 | 955 | 1155 | 9.16 | 9.9 | 8.02 | 25.4 | 25.64 | 24.06 |
| 15-Jul-97 | 1155 | 1355 | 8.785 | 9.8 | 7.24 | 25.46 | 25.94 | 25.1 |
| 15-Jul-97 | 1355 | 1555 | 8.705 | 10.1 | 7.5 | 25.46 | 26.1 | 25.1 |
| 15-Jul-97 | 1555 | 1755 | 7.816 | 9.4 | 6.94 | 25.15 | 25.5 | 25 |
| 15-Jul-97 | 1755 | 1955 | 8.286 | 9.8 | 7.1 | 25.37 | 25.7 | 25.08 |
| 15-Jul-97 | 1955 | 2155 | 8.6 | 9.1 | 7.74 | 25.55 | 25.6 | 25.48 |
| 15-Jul-97 | 2155 | 2355 | 8.318 | 8.88 | 7.44 | 25.5 | 25.6 | 25.4 |
| 15-Jul-97 | 2355 | 155 | 8.318 | 8.9 | 7.52 | 25.59 | 25.7 | 25.5 |
| 16-Jul-97 | 155 | 355 | 8.157 | 8.9 | 7.28 | 25.61 | 25.7 | 25.5 |
| 16-Jul-97 | 355 | 555 | 7.824 | 8.2 | 6.94 | 25.47 | 25.58 | 25.4 |
| 16-Jul-97 | 555 | 755 | 7.817 | 18.1 | 6.64 | 25.35 | 29.95 | 22.26 |
| 16-Jul-97 | 755 | 955 | 8.309 | 9.16 | 7.48 | 25.66 | 26 | 25.4 |
| 16-Jul-97 | 955 | 1155 | 8.443 | 9.5 | 7.62 | 25.85 | 26.24 | 25.64 |
| 16-Jul-97 | 1155 | 1355 | 8.106 | 8.9 | 7.28 | 25.91 | 26.24 | 25.7 |
| 16-Jul-97 | 1355 | 1555 | 7.099 | 8 | 6.32 | 25.6 | 25.8 | 25.32 |
| 16-Jul-97 | 1555 | 1755 | 6.366 | 6.94 | 5.5 | 25.48 | 25.6 | 25.24 |
| 16-Jul-97 | 1755 | 1955 | 6.767 | 7.32 | 5.96 | 25.63 | 25.8 | 25.44 |
| 16-Jul-97 | 1955 | 2155 | 7.097 | 7.38 | 6.38 | 25.82 | 25.9 | 25.7 |
| 16-Jul-97 | 2155 | 2355 | 7.091 | 7.4 | 6.24 | 25.8 | 25.9 | 25.74 |
| 16-Jul-97 | 2355 | 155 | 6.954 | 7.3 | 6.26 | 25.73 | 25.8 | 25.7 |
| 17-Jul-97 | 155 | 355 | 6.792 | 7 | 6.3 | 25.7 | 25.7 | 25.7 |
| 17-Jul-97 | 355 | 155 | 6.577 | 6.9 | 6.04 | 25.66 | 25.7 | 25.6 |
| 17-Jul-97 | 555 | 355 | 6.498 | 6.8 | 5.96 | 25.62 | 25.7 | 25.6 |
| 17-Jul-97 | 755 | 55 | 6.225 | 6.5 | 5.6 | 25.6 | 25.6 | 25.6 |
| 17-Jul-97 | 955 | 1155 | 6.432 | 8.2 | 5.7 | 25.63 | 25.7 | 23.47 |
| 17-Jul-97 | 1155 | 1355 | 7.299 | 8.8 | 5.9 | 26.37 | 27.26 | 25.7 |
| 17-Jul-97 | 1355 | 1555 | 8.934 | 9.76 | 8.02 | 27.03 | 28.32 | 26.36 |
| 17-Jul-97 | 1555 | 1755 | 8.021 | 9.48 | 6.52 | 26.4 | 27.2 | 25.94 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 17-Jul-97 | 1755 | 1955 | 7.267 | 7.94 | 6.02 | 25.93 | 26 | 25.8 |
| 17-Jul-97 | 1955 | 2155 | 6.575 | 7.4 | 5.74 | 25.82 | 25.9 | 25.7 |
| 17-Jul-97 | 2155 | 2355 | 6.607 | 7.6 | 5.72 | 25.83 | 26 | 25.78 |
| 17-Jul-97 | 2355 | 155 | 7.129 | 7.58 | 6.38 | 25.95 | 26.1 | 25.9 |
| 18-Jul-97 | 155 | 355 | 7.217 | 7.62 | 6.44 | 26.09 | 26.16 | 26 |
| 18-Jul-97 | 355 | 555 | 6.819 | 7.22 | 6.2 | 26.1 | 26.1 | 26.1 |
| 18-Jul-97 | 555 | 755 | 6.621 | 6.9 | 6.16 | 26.08 | 26.1 | 26 |
| 18-Jul-97 | 755 | 955 | 7.621 | 8.9 | 6.32 | 26.32 | 26.94 | 26 |
| 18-Jul-97 | 955 | 1155 | 9.04 | 10.3 | 7.24 | 27.22 | 28.1 | 26.4 |
| 18-Jul-97 | 1155 | 1355 | 9.919 | 10.92 | 8.72 | 28.47 | 29.54 | 27.5 |
| 18-Jul-97 | 1355 | 1555 | 9.907 | 10.98 | 8.08 | 27.54 | 28.88 | 26.7 |
| 18-Jul-97 | 1555 | 1755 | 10.24 | 11.12 | 8.58 | 27.22 | 27.5 | 26.6 |
| 18-Jul-97 | 1755 | 1955 | 7.616 | 10.16 | 6.16 | 26.36 | 26.9 | 26.2 |
| 18-Jul-97 | 1955 | 2155 | 7.423 | 8.18 | 6.3 | 26.3 | 26.4 | 26.2 |
| 18-Jul-97 | 2155 | 2355 | 7.391 | 8 | 6.6 | 26.29 | 26.4 | 26.2 |
| 18-Jul-97 | 2355 | 155 | 7.796 | 8.46 | 7.08 | 26.41 | 26.5 | 26.3 |
| 19-Jul-97 | 155 | 355 | 7.451 | 8.2 | 6.36 | 26.22 | 26.4 | 26.1 |
| 19-Jul-97 | 355 | 555 | 6.712 | 7.2 | 6.04 | 26.07 | 26.1 | 26 |
| 19-Jul-97 | 555 | 755 | 6.829 | 7.1 | 6.02 | 26.03 | 26.1 | 26 |
| 19-Jul-97 | 755 | 955 | 6.803 | 7.5 | 6 | 26.04 | 26.1 | 26 |
| 19-Jul-97 | 955 | 1155 | 7.15 | 8 | 6.26 | 26.18 | 26.4 | 26.1 |
| 19-Jul-97 | 1155 | 1355 | 8.092 | 8.82 | 7.02 | 26.57 | 26.7 | 26.4 |
| 19-Jul-97 | 1355 | 1555 | 8.16 | 8.74 | 7.08 | 26.48 | 26.6 | 26.3 |
| 19-Jul-97 | 1555 | 1755 | 7.824 | 8.56 | 6.86 | 26.2 | 26.38 | 26.1 |
| 19-Jul-97 | 1755 | 1955 | 7.954 | 8.74 | 6.66 | 26.17 | 26.2 | 26.1 |
| 19-Jul-97 | 1955 | 2155 | 6.993 | 7.62 | 6.14 | 25.99 | 26.1 | 25.9 |
| 19-Jul-97 | 2155 | 2355 | 6.789 | 7.24 | 6.18 | 25.9 | 25.9 | 25.82 |
| 19-Jul-97 | 2355 | 155 | 6.601 | 7.1 | 5.72 | 25.88 | 25.9 | 25.8 |
| 20-Jul-97 | 155 | 355 | 6.357 | 6.72 | 5.56 | 25.76 | 25.8 | 25.7 |
| 20-Jul-97 | 355 | 555 | 5.653 | 6.2 | 5.02 | 25.66 | 25.7 | 25.6 |
| 20-Jul-97 | 555 | 755 | 5.203 | 5.6 | 4.58 | 25.6 | 25.6 | 25.6 |
| 20-Jul-97 | 755 | 955 | 4.9 | 5.2 | 4.34 | 25.6 | 25.6 | 25.6 |
| 20-Jul-97 | 955 | 1155 | 4.881 | 5.7 | 4.36 | 25.63 | 26.08 | 25.5 |
| 20-Jul-97 | 1155 | 1355 | 5.733 | 7 | 4.32 | 26.2 | 27.68 | 25.5 |
| 20-Jul-97 | 1355 | 1555 | 7.545 | 8.5 | 5.98 | 26.97 | 27.42 | 26 |
| 20-Jul-97 | 1555 | 1755 | 7.866 | 8.66 | 6.3 | 26.72 | 27.18 | 26.02 |
| 20-Jul-97 | 1755 | 1955 | 8.003 | 9 | 7 | 26.66 | 27 | 26.36 |
| 20-Jul-97 | 1955 | 2155 | 7.118 | 8.08 | 6.12 | 26.36 | 26.6 | 26.2 |
| 20-Jul-97 | 2155 | 2355 | 6.655 | 7.4 | 5.94 | 26.21 | 26.4 | 26.1 |
| 20-Jul-97 | 2355 | 155 | 6.325 | 7.6 | 4.18 | 25.99 | 26.4 | 25.4 |
| 21-Jul-97 | 155 | 355 | 5.417 | 6.14 | 4.22 | 25.6 | 25.7 | 25.4 |
| 21-Jul-97 | 355 | 555 | 5.459 | 6.3 | 4.72 | 25.6 | 25.7 | 25.5 |
| 21-Jul-97 | 555 | 755 | 5.41 | 8.754 | 4.9 | 25.46 | 25.6 | 23.48 |
| 21-Jul-97 | 755 | 955 | 5.092 | 5.5 | 4.48 | 25.62 | 25.7 | 25.5 |
| 21-Jul-97 | 955 | 1155 | 5.701 | 6.4 | 4.82 | 25.72 | 25.8 | 25.6 |
| 21-Jul-97 | 1155 | 1355 | 6.037 | 6.38 | 5.52 | 25.85 | 25.9 | 25.74 |
| 21-Jul-97 | 1355 | 1555 | 6.514 | 7 | 5.84 | 25.95 | 26 | 25.9 |
| 21-Jul-97 | 1555 | 1755 | 6.269 | 6.6 | 5.58 | 26 | 26 | 26 |
| 21-Jul-97 | 1755 | 1955 | 6.504 | 7 | 5.82 | 25.99 | 26 | 25.9 |
| 21-Jul-97 | 1955 | 2155 | 6.392 | 6.92 | 5.34 | 25.83 | 26 | 25.7 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 21-Jul-97 | 2155 | 2355 | 5.847 | 6.4 | 4.82 | 25.66 | 25.78 | 25.52 |
| 21-Jul-97 | 2355 | 155 | 5.224 | 5.64 | 4.74 | 25.46 | 25.6 | 25.4 |
| 22-Jul-97 | 155 | 355 | 5.054 | 5.4 | 4.44 | 25.38 | 25.4 | 25.3 |
| 22-Jul-97 | 355 | 555 | 4.828 | 5.1 | 4.26 | 25.28 | 25.3 | 25.2 |
| 22-Jul-97 | 555 | 755 | 4.507 | 4.76 | 4.1 | 25.2 | 25.26 | 25.2 |
| 22-Jul-97 | 755 | 955 | 4.317 | 4.6 | 3.86 | 25.2 | 25.2 | 25.2 |
| 22-Jul-97 | 955 | 1155 | 4.362 | 9.3 | 3.6 | 25.04 | 25.22 | 21.25 |
| 22-Jul-97 | 1155 | 1355 | 4.813 | 5.64 | 3.82 | 25.54 | 25.9 | 25.2 |
| 22-Jul-97 | 1355 | 1555 | 5.645 | 6.4 | 5.1 | 25.94 | 26.3 | 25.8 |
| 22-Jul-97 | 1555 | 1755 | 6.305 | 7.28 | 5.54 | 26.35 | 26.5 | 26.06 |
| 22-Jul-97 | 1755 | 1955 | 6.232 | 7.12 | 5.38 | 26.2 | 26.4 | 25.9 |
| 22-Jul-97 | 1955 | 2155 | 5.448 | 6.1 | 4.88 | 25.86 | 25.96 | 25.8 |
| 22-Jul-97 | 2155 | 2355 | 5.02 | 5.6 | 4.48 | 25.7 | 25.8 | 25.6 |
| 22-Jul-97 | 2355 | 155 | 4.657 | 5.24 | 4.08 | 25.5 | 25.6 | 25.4 |
| 23-Jul-97 | 155 | 355 | 4.405 | 4.8 | 3.88 | 25.33 | 25.4 | 25.3 |
| 23-Jul-97 | 355 | 555 | 3.952 | 4.46 | 3.4 | 25.2 | 25.3 | 25.1 |
| 23-Jul-97 | 555 | 755 | 4.073 | 11.64 | 3.4 | 25.01 | 25.1 | 21.44 |
| 23-Jul-97 | 755 | 955 | 3.906 | 4.48 | 3.56 | 25.1 | 25.1 | 25.04 |
| 23-Jul-97 | 955 | 1155 | 4.067 | 4.96 | 3.42 | 25.16 | 25.3 | 25 |
| 23-Jul-97 | 1155 | 1355 | 4.518 | 5 | 3.84 | 25.51 | 25.98 | 25.22 |
| 23-Jul-97 | 1355 | 1555 | 5.042 | 7.74 | 4.12 | 25.92 | 26.1 | 25.7 |
| 23-Jul-97 | 1555 | 1755 | 7.382 | 8.3 | 6.4 | 25.98 | 26 | 25.82 |
| 23-Jul-97 | 1755 | 1955 | 6.849 | 7.8 | 6.02 | 25.75 | 26 | 25.6 |
| 23-Jul-97 | 1955 | 2155 | 5.824 | 6.66 | 5.32 | 25.45 | 25.6 | 25.3 |
| 23-Jul-97 | 2155 | 2355 | 5.639 | 6.3 | 5.02 | 25.24 | 25.4 | 25.2 |
| 23-Jul-97 | 2355 | 155 | 5.443 | 6.1 | 4.74 | 25.1 | 25.2 | 25 |
| 24-Jul-97 | 155 | 355 | 4.944 | 5.5 | 4.44 | 24.97 | 25.1 | 24.9 |
| 24-Jul-97 | 355 | 555 | 4.388 | 5.1 | 3.68 | 24.88 | 24.9 | 24.8 |
| 24-Jul-97 | 555 | 755 | 6.039 | 8.176 | 6.3 | 25.35 | 25.4 | 23.69 |
| 24-Jul-97 | 755 | 955 | 6.668 | 7.56 | 5.72 | 25.46 | 25.7 | 25.4 |
| 24-Jul-97 | 955 | 1155 | 7.795 | 9.86 | 6.12 | 25.97 | 26.6 | 25.58 |
| 24-Jul-97 | 1155 | 1355 | 10.03 | 11.26 | 8.86 | 26.71 | 27.1 | 26.5 |
| 24-Jul-97 | 1355 | 1555 | 11.09 | 12.58 | 9.48 | 27.38 | 27.72 | 27 |
| 24-Jul-97 | 1555 | 1755 | 13.12 | 15.04 | 11.62 | 27.68 | 28 | 27.4 |
| 24-Jul-97 | 1755 | 1955 | 12.69 | 14.58 | 10.8 | 27.31 | 27.6 | 26.9 |
| 24-Jul-97 | 1955 | 2155 | 10.94 | 12.28 | 9.9 | 26.78 | 26.9 | 26.6 |
| 24-Jul-97 | 2155 | 2355 | 9.747 | 11.06 | 8.9 | 26.46 | 26.6 | 26.4 |
| 24-Jul-97 | 2355 | 155 | 8.649 | 9.4 | 7.76 | 26.66 | 26.8 | 26.4 |
| 24-Jul-97 | 2355 | 155 | 9.302 | 10.58 | 8.4 | 26.3 | 26.4 | 26.12 |
| 25-Jul-97 | 155 | 355 | 8.251 | 9 | 7.4 | 26.33 | 26.5 | 26.2 |
| 25-Jul-97 | 155 | 355 | 8.633 | 9.9 | 7.64 | 26.06 | 26.2 | 26 |
| 25-Jul-97 | 355 | 555 | 7.535 | 8.6 | 6.44 | 26.03 | 26.2 | 25.74 |
| 25-Jul-97 | 355 | 555 | 8.24 | 9.2 | 7.06 | 25.9 | 26 | 25.8 |
| 25-Jul-97 | 555 | 755 | 6.676 | 8.1 | 3.72 | 25.66 | 26 | 24.8 |
| 25-Jul-97 | 555 | 755 | 4.177 | 8.42 | 3.48 | 24.71 | 24.84 | 21.81 |
| 25-Jul-97 | 555 | 755 | 7.883 | 9.8 | 6.38 | 25.67 | 25.8 | 22.37 |
| 25-Jul-97 | 755 | 955 | 5.979 | 7.3 | 3.8 | 25.36 | 25.6 | 24.8 |
| 25-Jul-97 | 755 | 955 | 4.812 | 5.8 | 4 | 24.88 | 25.1 | 24.8 |
| 25-Jul-97 | 755 | 955 | 9.172 | 10.12 | 8.26 | 25.77 | 25.8 | 25.7 |
| 25-Jul-97 | 955 | 1155 | 6.726 | 7.5 | 5.52 | 25.49 | 25.7 | 25.3 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 25-Jul-97 | 955 | 1155 | 6.576 | 7.98 | 3.98 | 25.85 | 26.64 | 24.8 |
| 25-Jul-97 | 955 | 1155 | 9.465 | 10.82 | 8.54 | 25.86 | 26.02 | 25.8 |
| 25-Jul-97 | 1155 | 1355 | 5.079 | 7.3 | 3.78 | 25 | 25.5 | 24.7 |
| 25-Jul-97 | 1155 | 1355 | 7.332 | 8.4 | 4.82 | 26.73 | 27.3 | 25.12 |
| 25-Jul-97 | 1155 | 1355 | 10.54 | 12.5 | 8.64 | 26.07 | 26.3 | 25.8 |
| 25-Jul-97 | 1355 | 1555 | 3.982 | 4.4 | 3.48 | 24.64 | 24.74 | 24.6 |
| 25-Jul-97 | 1355 | 1555 | 8.423 | 9.6 | 4.92 | 27.56 | 28.46 | 25 |
| 25-Jul-97 | 1355 | 1555 | 10.97 | 12.62 | 8.86 | 26.21 | 26.4 | 25.8 |
| 25-Jul-97 | 1555 | 1755 | 4.099 | 4.7 | 3.54 | 24.64 | 24.7 | 24.58 |
| 25-Jul-97 | 1555 | 1755 | 8.234 | 10.02 | 6.74 | 26.26 | 28.6 | 25.5 |
| 25-Jul-97 | 1555 | 1755 | 10.42 | 11.76 | 9.1 | 26.13 | 26.2 | 26 |
| 25-Jul-97 | 1755 | 1955 | 4.814 | 6.9 | 3.38 | 24.96 | 25.5 | 24.5 |
| 25-Jul-97 | 1755 | 1955 | 9.543 | 10.72 | 8.52 | 26.54 | 27.04 | 26.1 |
| 25-Jul-97 | 1755 | 1955 | 9.519 | 10.9 | 8.62 | 25.92 | 26 | 25.9 |
| 25-Jul-97 | 1955 | 2155 | 6.192 | 7.3 | 5.08 | 25.39 | 25.6 | 25 |
| 25-Jul-97 | 1955 | 2155 | 9.003 | 10 | 8.24 | 26.82 | 27.02 | 26.4 |
| 25-Jul-97 | 1955 | 2155 | 8.642 | 10.34 | 7.34 | 25.71 | 25.9 | 25.6 |
| 25-Jul-97 | 2155 | 2355 | 6.965 | 7.48 | 6.2 | 25.63 | 25.7 | 25.6 |
| 25-Jul-97 | 2155 | 2355 | 8.694 | 9.6 | 8.04 | 26.83 | 27 | 26.66 |
| 25-Jul-97 | 2155 | 2355 | 7.789 | 9 | 6.9 | 25.56 | 25.6 | 25.5 |
| 25-Jul-97 | 2355 | 155 | 6.689 | 7.28 | 5.8 | 25.58 | 25.7 | 25.5 |
| 26-Jul-97 | 155 | 355 | 6.588 | 7.2 | 5.68 | 25.5 | 25.5 | 25.42 |
| 26-Jul-97 | 355 | 555 | 6.152 | 7.04 | 5.54 | 25.41 | 25.5 | 25.3 |
| 26-Jul-97 | 555 | 755 | 5.871 | 6.4 | 5.22 | 25.39 | 25.48 | 25.3 |
| 26-Jul-97 | 755 | 955 | 5.909 | 6.56 | 5.16 | 25.43 | 25.74 | 25.34 |
| 26-Jul-97 | 955 | 1155 | 6.104 | 7.26 | 5.24 | 25.56 | 26.12 | 25.4 |
| 26-Jul-97 | 1155 | 1355 | 6.74 | 8.24 | 5.54 | 26.04 | 28.3 | 25.5 |
| 26-Jul-97 | 1355 | 1555 | 7.761 | 8.66 | 6.46 | 27.37 | 29.06 | 25.72 |
| 26-Jul-97 | 1555 | 1755 | 7.367 | 8.9 | 5.52 | 26.64 | 27.96 | 25.5 |
| 26-Jul-97 | 1755 | 1955 | 6.403 | 7.86 | 5.22 | 25.94 | 26.98 | 25.3 |
| 26-Jul-97 | 1955 | 2155 | 5.977 | 6.6 | 5.24 | 25.69 | 26 | 25.46 |
| 26-Jul-97 | 2155 | 2355 | 6.691 | 7.8 | 5.5 | 25.89 | 26.1 | 25.6 |
| 26-Jul-97 | 2355 | 155 | 7.137 | 7.7 | 6.28 | 26.17 | 26.2 | 26 |
| 27-Jul-97 | 155 | 355 | 7.083 | 7.64 | 6.24 | 26.2 | 26.2 | 26.2 |
| 27-Jul-97 | 355 | 555 | 6.762 | 7.38 | 6.14 | 26.08 | 26.2 | 26 |
| 27-Jul-97 | 555 | 755 | 6.594 | 7.16 | 5.62 | 26.05 | 26.1 | 26 |
| 27-Jul-97 | 755 | 955 | 6.084 | 7 | 5.32 | 25.93 | 26 | 25.9 |
| 27-Jul-97 | 955 | 1155 | 6.095 | 6.7 | 5.12 | 25.91 | 26 | 25.9 |
| 27-Jul-97 | 1155 | 1355 | 6.567 | 8.08 | 5.34 | 26.09 | 26.32 | 25.9 |
| 27-Jul-97 | 1355 | 1555 | 5.446 | 6.78 | 4.76 | 25.71 | 25.92 | 25.6 |
| 27-Jul-97 | 1555 | 1755 | 5.956 | 6.8 | 4.64 | 25.79 | 25.86 | 25.52 |
| 27-Jul-97 | 1755 | 1955 | 4.79 | 5.42 | 4.22 | 25.43 | 25.58 | 25.3 |
| 27-Jul-97 | 1955 | 2155 | 4.517 | 5.7 | 3.66 | 25.23 | 25.5 | 25.02 |
| 27-Jul-97 | 2155 | 2355 | 5.687 | 6.3 | 5 | 25.48 | 25.5 | 25.3 |
| 27-Jul-97 | 2355 | 155 | 5.973 | 6.4 | 5.2 | 25.5 | 25.5 | 25.44 |
| 28-Jul-97 | 155 | 355 | 5.946 | 6.42 | 5.28 | 25.43 | 25.5 | 25.4 |
| 28-Jul-97 | 355 | 555 | 5.935 | 6.4 | 5.34 | 25.43 | 25.5 | 25.4 |
| 29-Jul-97 | 2355 | 155 | 7.368 | 8.36 | 6.5 | 25.48 | 25.5 | 25.4 |
| 30-Jul-97 | 155 | 355 | 7.12 | 8.3 | 6.22 | 25.4 | 25.4 | 25.4 |
| 30-Jul-97 | 355 | 555 | 7.138 | 8 | 6.1 | 25.34 | 25.4 | 25.24 |

Continous D.O. July 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 30-Jul-97 | 555 | 755 | 7.148 | 14.51 | 5.82 | 24.79 | 25.3 | 18.4 |
| 30-Jul-97 | 755 | 955 | 7.954 | 9.3 | 6.38 | 25.44 | 25.7 | 25.24 |
| 30-Jul-97 | 955 | 1155 | 9.039 | 11.54 | 5.42 | 26.03 | 26.4 | 25.56 |
| 30-Jul-97 | 1155 | 1355 | 11.22 | 13.48 | 7.26 | 26.54 | 26.8 | 26.22 |
| 30-Jul-97 | 1355 | 1555 | 9.085 | 11.4 | 6.84 | 27.03 | 27.36 | 26.7 |
| 30-Jul-97 | 1555 | 1755 | 3.979 | 8.82 | 1.6 | 27.48 | 27.8 | 26.9 |
| 30-Jul-97 | 1755 | 1955 | 0.9499 | 1.7 | 0.6 | 27.27 | 27.5 | 27.04 |
| 30-Jul-97 | 1955 | 2155 | 0.4626 | 0.6 | 0.4 | 26.88 | 27.1 | 26.7 |
| 30-Jul-97 | 2155 | 2355 | 0.4 | 0.4 | 0.4 | 26.54 | 26.78 | 26.3 |
| 30-Jul-97 | 2355 | 155 | 0.4 | 0.4 | 0.4 | 26.14 | 26.4 | 26 |
| 31-Jul-97 | 155 | 355 | 0.4 | 0.4 | 0.4 | 25.85 | 26 | 25.7 |
| 31-Jul-97 | 355 | 555 | 0.4 | 0.4 | 0.4 | 25.62 | 25.76 | 25.4 |
| 31-Jul-97 | 555 | 755 | 0.4 | 0.4 | 0.4 | 25.4 | 25.42 | 25.38 |
| 31-Jul-97 | 755 | 955 | 0.4 | 0.4 | 0.4 | 25.5 | 25.7 | 25.4 |
| 31-Jul-97 | 955 | 1155 | 0.3761 | 0.4 | 0.3 | 25.5 | 25.84 | 25.2 |
| 31-Jul-97 | 1155 | 1355 | 0.3 | 0.3 | 0.3 | 25.29 | 25.4 | 25.2 |
| 31-Jul-97 | 1355 | 1555 | 4.555 | 22.12 | 0.3 | 25.25 | 26.52 | 21 |
| 31-Jul-97 | 1555 | 1755 | 7.018 | 8.14 | 5.92 | 25.16 | 25.3 | 25.1 |
| 31-Jul-97 | 1755 | 1955 | 6.34 | 7 | 5.14 | 25.04 | 25.1 | 25 |
| 31-Jul-97 | 1955 | 2155 | 6.297 | 6.84 | 5.14 | 24.93 | 25 | 24.9 |
| 31-Jul-97 | 2155 | 2355 | 6.937 | 7.88 | 5.34 | 24.94 | 25 | 24.9 |
| 31-Jul-97 | 2355 | 155 | 6.506 | 7.78 | 3.26 | 24.96 | 25 | 24.9 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 1-Aug-97 | 155 | 355 | 6.413 | 7.58 | 3.54 | 24.93 | 25 | 24.9 |
| 1-Aug-97 | 355 | 555 | 6.206 | 7.52 | 2.68 | 24.9 | 25 | 24.9 |
| 1-Aug-97 | 555 | 755 | 6.409 | 7.22 | 4.38 | 24.9 | 24.92 | 24.9 |
| 1-Aug-97 | 755 | 955 | 6.814 | 8.08 | 4.44 | 24.96 | 25.1 | 24.9 |
| 1-Aug-97 | 955 | 1155 | 6.791 | 8.12 | 3.52 | 25 | 25.1 | 24.9 |
| 1-Aug-97 | 1155 | 1355 | 5.965 | 7.36 | 4.2 | 24.89 | 25 | 24.8 |
| 1-Aug-97 | 1355 | 1555 | 6.649 | 8.58 | 3.66 | 24.96 | 25.1 | 24.86 |
| 1-Aug-97 | 1555 | 1755 | 6.562 | 7.96 | 3.6 | 24.94 | 25 | 24.9 |
| 1-Aug-97 | 1755 | 1955 | 6.595 | 8.24 | 3.68 | 24.9 | 24.98 | 24.9 |
| 1-Aug-97 | 1955 | 2155 | 6.8 | 8.24 | 2.52 | 24.9 | 24.9 | 24.9 |
| 1-Aug-97 | 2155 | 2355 | 6.59 | 7.98 | 3.44 | 24.86 | 24.9 | 24.8 |
| 1-Aug-97 | 2355 | 155 | 6.411 | 7.7 | 3.32 | 24.8 | 24.8 | 24.8 |
| 2-Aug-97 | 155 | 355 | 6.235 | 7.66 | 3.28 | 24.8 | 24.8 | 24.8 |
| 2-Aug-97 | 355 | 555 | 6.447 | 7.7 | 3.3 | 24.8 | 24.8 | 24.8 |
| 2-Aug-97 | 555 | 755 | 6.364 | 7.76 | 2.74 | 24.8 | 24.8 | 24.7 |
| 2-Aug-97 | 755 | 955 | 6.587 | 8.42 | 4.26 | 24.93 | 25.48 | 24.8 |
| 2-Aug-97 | 955 | 1155 | 6.885 | 8.64 | 4.48 | 25.39 | 25.64 | 25.1 |
| 2-Aug-97 | 1155 | 1355 | 8.17 | 10.28 | 4.68 | 25.16 | 27.48 | 26.56 |
| 2-Aug-97 | 1355 | 1555 | 9.137 | 11.98 | 5.5 | 27.3 | 28.18 | 26.2 |
| 2-Aug-97 | 1555 | 1755 | 10.53 | 13.42 | 7.7 | 27.4 | 28.14 | 26.96 |
| 2-Aug-97 | 1755 | 1955 | 10.4 | 14.18 | 7.34 | 27.16 | 27.7 | 26.52 |
| 2-Aug-97 | 1955 | 2155 | 9.621 | 12.72 | 6 | 26.48 | 26.8 | 26.16 |
| 2-Aug-97 | 2155 | 2355 | 8.565 | 11.56 | 5.96 | 26.1 | 26.3 | 25.82 |
| 2-Aug-97 | 2355 | 155 | 8.137 | 10.66 | 4.42 | 25.78 | 26 | 25.4 |
| 3-Aug-97 | 155 | 355 | 7.967 | 10.64 | 4.7 | 25.79 | 25.86 | 25.7 |
| 3-Aug-97 | 355 | 555 | 7.621 | 10 | 3.78 | 25.77 | 25.82 | 25.6 |
| 3-Aug-97 | 555 | 755 | 7.386 | 9.68 | 3.42 | 25.65 | 25.8 | 25.52 |
| 3-Aug-97 | 755 | 955 | 6.683 | 9.04 | 4.76 | 25.29 | 25.6 | 24.9 |
| 3-Aug-97 | 955 | 1155 | 6.584 | 7.84 | 4.76 | 25.25 | 25.4 | 25.1 |
| 3-Aug-97 | 1155 | 1355 | 6.483 | 8.04 | 4.42 | 25.17 | 25.5 | 25 |
| 3-Aug-97 | 1355 | 1555 | 7.27 | 9.28 | 5.34 | 26.42 | 27.84 | 24.98 |
| 3-Aug-97 | 1555 | 1755 | 8.464 | 10.38 | 5.96 | 27.4 | 28.14 | 26.52 |
| 3-Aug-97 | 1755 | 1955 | 7.824 | 10.08 | 5.26 | 26.55 | 27.58 | 26.16 |
| 3-Aug-97 | 1955 | 2155 | 7.371 | 9.68 | 5.2 | 26.14 | 26.3 | 26 |
| 3-Aug-97 | 2155 | 2355 | 6.929 | 9.04 | 3.36 | 25.86 | 26 | 25.8 |
| 3-Aug-97 | 2355 | 155 | 6.752 | 9.06 | 3.4 | 25.72 | 25.8 | 25.6 |
| 4-Aug-97 | 155 | 355 | 7.01 | 8.96 | 4.08 | 25.58 | 25.7 | 25.4 |
| 4-Aug-97 | 355 | 555 | 6.996 | 8.56 | 4.02 | 25.53 | 25.6 | 25.4 |
| 4-Aug-97 | 555 | 755 | 7.759 | 26.78 | 0.3259 | 25.35 | 25.6 | 22.49 |
| 4-Aug-97 | 755 | 955 | 10.4 | 11.4 | 9.58 | 25.69 | 25.8 | 25.6 |
| 4-Aug-97 | 955 | 1155 | 12.19 | 14.42 | 10.58 | 26.23 | 27.16 | 25.72 |
| 4-Aug-97 | 1155 | 1355 | 13.81 | 15.36 | 12.4 | 27.41 | 28.1 | 26.8 |
| 4-Aug-97 | 1355 | 1555 | 13.09 | 15.12 | 11.2 | 27.27 | 28.02 | 26.7 |
| 4-Aug-97 | 1555 | 1755 | 13.94 | 15.6 | 11.6 | 26.9 | 27.2 | 26.5 |
| 4-Aug-97 | 1755 | 1955 | 12.89 | 14.52 | 11.3 | 26.46 | 26.7 | 26.3 |
| 4-Aug-97 | 1955 | 2155 | 11.91 | 13.22 | 10.16 | 26.09 | 26.34 | 25.9 |
| 4-Aug-97 | 2155 | 2355 | 11.27 | 12.36 | 10.2 | 25.85 | 25.9 | 25.7 |
| 4-Aug-97 | 2355 | 155 | 11.22 | 12.04 | 10.08 | 25.66 | 25.7 | 25.6 |
| 5-Aug-97 | 155 | 355 | 10.4 | 11.52 | 9.24 | 25.47 | 25.6 | 25.3 |
| 5-Aug-97 | 355 | 555 | 9.53 | 10.7 | 8.42 | 25.21 | 25.3 | 25.1 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 5-Aug-97 | 555 | 730 | 9.256 | 9.86 | 8.46 | 25.03 | 25.1 | 25 |
| 5-Aug-97 | 757 | 955 | 8.653 | 10.6 | 7.52 | 24.78 | 25.2 | 20.83 |
| 5-Aug-97 | 955 | 1155 | 9.813 | 10.72 | 8.2 | 25.39 | 25.74 | 25.16 |
| 5-Aug-97 | 1155 | 1355 | 10.49 | 12.36 | 7.16 | 25.9 | 26.5 | 25 |
| 5-Aug-97 | 1355 | 1555 | 12.03 | 13.3 | 11.04 | 26.47 | 26.8 | 26.12 |
| 5-Aug-97 | 1555 | 1755 | 13.35 | 14.84 | 11.62 | 26.65 | 26.9 | 26.3 |
| 5-Aug-97 | 1755 | 1955 | 14.17 | 15.3 | 12.86 | 26.52 | 26.76 | 26.16 |
| 5-Aug-97 | 1955 | 2155 | 13.39 | 14.32 | 12.44 | 26.07 | 26.22 | 25.9 |
| 5-Aug-97 | 2155 | 2355 | 12.38 | 13.62 | 11.48 | 25.8 | 25.9 | 25.7 |
| 5-Aug-97 | 2355 | 155 | 11.74 | 12.6 | 10.84 | 25.57 | 25.7 | 25.4 |
| 6-Aug-97 | 155 | 355 | 10.92 | 11.8 | 9.88 | 25.37 | 25.5 | 25.3 |
| 6-Aug-97 | 355 | 555 | 10.06 | 10.86 | 9.2 | 25.17 | 25.3 | 25.1 |
| 6-Aug-97 | 555 | 755 | 9.348 | 10.3 | 7.716 | 24.76 | 25.1 | 19.96 |
| 6-Aug-97 | 755 | 955 | 8.57 | 10.26 | 7.64 | 24.88 | 25 | 24.8 |
| 6-Aug-97 | 955 | 1155 | 9.848 | 12.6 | 7.62 | 25.02 | 25.3 | 24.8 |
| 6-Aug-97 | 1155 | 1355 | 11.3 | 13.38 | 9.96 | 25.3 | 25.6 | 25.2 |
| 6-Aug-97 | 1355 | 1555 | 8.915 | 12 | 7.2 | 25.07 | 25.48 | 24.8 |
| 6-Aug-97 | 1555 | 1755 | 7.439 | 8.52 | 6.42 | 24.72 | 24.92 | 24.62 |
| 6-Aug-97 | 1755 | 1955 | 7.114 | 7.8 | 6.36 | 24.67 | 24.7 | 24.6 |
| 6-Aug-97 | 1955 | 2155 | 6.948 | 7.86 | 5.92 | 24.6 | 24.64 | 24.6 |
| 6-Aug-97 | 2155 | 2355 | 7.132 | 8.22 | 5.86 | 24.63 | 24.7 | 24.6 |
| 6-Aug-97 | 2355 | 155 | 7.936 | 8.82 | 6.96 | 24.7 | 24.7 | 24.7 |
| 7-Aug-97 | 155 | 355 | 7.286 | 8.32 | 6.38 | 24.64 | 24.7 | 24.6 |
| 7-Aug-97 | 355 | 555 | 6.622 | 7.34 | 6.06 | 24.55 | 24.6 | 24.5 |
| 7-Aug-97 | 555 | 755 | 6.474 | 8.3 | 5.78 | 24.4 | 24.5 | 22.98 |
| 7-Aug-97 | 755 | 955 | 5.604 | 6.36 | 4.76 | 24.41 | 24.5 | 24.4 |
| 7-Aug-97 | 955 | 1155 | 6.913 | 8.02 | 4.64 | 24.85 | 25.1 | 24.4 |
| 7-Aug-97 | 1155 | 1355 | 7.397 | 8.4 | 6.6 | 24.83 | 25.1 | 24.64 |
| 7-Aug-97 | 1355 | 1555 | 8.389 | 9.56 | 7.1 | 25.08 | 25.52 | 24.72 |
| 7-Aug-97 | 1555 | 1755 | 8.524 | 9.5 | 6.66 | 24.88 | 25.38 | 24.56 |
| 7-Aug-97 | 1755 | 1955 | 7.166 | 8.62 | 5.76 | 24.61 | 24.92 | 24.4 |
| 7-Aug-97 | 1955 | 2155 | 7.383 | 8 | 6.62 | 24.5 | 24.5 | 24.4 |
| 7-Aug-97 | 2155 | 2355 | 7.348 | 8.1 | 6.4 | 24.5 | 24.5 | 24.46 |
| 8-Aug-97 | 155 | 355 | 6.334 | 6.94 | 5.4 | 24.39 | 24.4 | 24.3 |
| 8-Aug-97 | 355 | 555 | 5.446 | 6.4 | 4.4 | 24.3 | 24.36 | 24.3 |
| 8-Aug-97 | 555 | 755 | 5.605 | 6.6 | 4.54 | 24.31 | 24.4 | 24.3 |
| 8-Aug-97 | 755 | 955 | 6.605 | 7.7 | 5.46 | 24.5 | 24.68 | 24.4 |
| 8-Aug-97 | 955 | 1155 | 5.846 | 6.58 | 5.14 | 24.42 | 24.5 | 24.4 |
| 8-Aug-97 | 1155 | 1355 | 6.483 | 8.06 | 5.2 | 24.57 | 24.9 | 24.36 |
| 8-Aug-97 | 1355 | 1555 | 5.982 | 6.78 | 5.2 | 24.62 | 24.88 | 24.5 |
| 8-Aug-97 | 1555 | 1755 | 5.525 | 6.38 | 4.66 | 24.54 | 24.6 | 24.4 |
| 8-Aug-97 | 1755 | 1955 | 5.913 | 6.58 | 4.74 | 24.63 | 24.7 | 24.48 |
| 8-Aug-97 | 1955 | 2155 | 5.883 | 6.78 | 4 | 24.56 | 24.66 | 24.36 |
| 8-Aug-97 | 2155 | 2355 | 6.828 | 7.8 | 5.98 | 24.68 | 24.8 | 24.6 |
| 8-Aug-97 | 2355 | 155 | 7.156 | 7.9 | 6.24 | 24.68 | 24.8 | 24.6 |
| 8-Aug-97 | 2355 | 155 | 6.826 | 7.58 | 6 | 24.42 | 24.5 | 24.4 |
| 9-Aug-97 | 155 | 355 | 6.276 | 7.42 | 5.52 | 24.53 | 24.6 | 24.5 |
| 9-Aug-97 | 355 | 555 | 6.039 | 6.6 | 5.32 | 24.49 | 24.6 | 24.4 |
| 9-Aug-97 | 555 | 755 | 5.837 | 6.36 | 5.24 | 24.42 | 24.5 | 24.4 |
| 9-Aug-97 | 755 | 955 | 6.141 | 6.9 | 5.24 | 24.52 | 24.6 | 24.5 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 9-Aug-97 | 955 | 1155 | 6.16 | 6.7 | 5.64 | 24.47 | 24.6 | 24.4 |
| 9-Aug-97 | 1155 | 1355 | 6.893 | 7.84 | 5.68 | 24.66 | 24.9 | 24.4 |
| 9-Aug-97 | 1355 | 1555 | 7.245 | 8.12 | 6.56 | 24.77 | 25.1 | 24.6 |
| 9-Aug-97 | 1555 | 1755 | 7.703 | 8.8 | 6.66 | 24.84 | 25.2 | 24.7 |
| 9-Aug-97 | 1755 | 1955 | 7.214 | 8.34 | 6.06 | 24.83 | 24.96 | 24.52 |
| 9-Aug-97 | 1955 | 2155 | 7.093 | 7.96 | 6.06 | 24.77 | 24.9 | 24.62 |
| 9-Aug-97 | 2155 | 2355 | 6.658 | 7.4 | 6.04 | 24.66 | 24.7 | 24.6 |
| 9-Aug-97 | 2355 | 155 | 6.319 | 7.02 | 5.54 | 24.59 | 24.7 | 24.5 |
| 10-Aug-97 | 155 | 355 | 6.147 | 6.66 | 5.44 | 24.55 | 24.6 | 24.5 |
| 10-Aug-97 | 355 | 555 | 5.384 | 6.5 | 4.58 | 24.44 | 24.5 | 24.3 |
| 10-Aug-97 | 555 | 755 | 5.965 | 6.5 | 4.6 | 24.5 | 24.5 | 24.4 |
| 10-Aug-97 | 755 | 955 | 6.16 | 6.7 | 5.54 | 24.49 | 24.5 | 24.4 |
| 10-Aug-97 | 955 | 1155 | 6.379 | 7 | 5.8 | 24.5 | 24.5 | 24.5 |
| 10-Aug-97 | 1155 | 1355 | 6.971 | 7.9 | 5.82 | 24.72 | 25.3 | 24.5 |
| 10-Aug-97 | 1355 | 1555 | 7.67 | 8.66 | 6.74 | 25.1 | 25.4 | 24.9 |
| 10-Aug-97 | 1555 | 1755 | 7.791 | 9.6 | 6.36 | 24.87 | 25 | 24.7 |
| 10-Aug-97 | 1755 | 1955 | 7.985 | 8.98 | 7.08 | 24.73 | 24.8 | 24.66 |
| 10-Aug-97 | 2355 | 155 | 6.477 | 7.1 | 5.6 | 24.4 | 24.4 | 24.3 |
| 11-Aug-97 | 155 | 355 | 6.789 | 7.48 | 5.76 | 24.37 | 24.4 | 24.3 |
| 11-Aug-97 | 355 | 555 | 6.342 | 6.7 | 5.74 | 24.29 | 24.3 | 24.2 |
| 11-Aug-97 | 555 | 755 | 5.981 | 6.86 | 5.08 | 24.2 | 24.2 | 24.2 |
| 11-Aug-97 | 755 | 955 | 6.084 | 9.315 | 5.24 | 23.96 | 24.2 | 18.87 |
| 11-Aug-97 | 955 | 1155 | 6.114 | 6.4 | 5.44 | 24.1 | 24.1 | 24.1 |
| 11-Aug-97 | 1155 | 1355 | 6.281 | 7.04 | 5.56 | 24.11 | 24.2 | 24.1 |
| 11-Aug-97 | 1355 | 1555 | 6.172 | 6.76 | 5.36 | 24.1 | 24.1 | 24.1 |
| 11-Aug-97 | 1555 | 1755 | 5.982 | 6.54 | 5.3 | 24.08 | 24.1 | 24 |
| 11-Aug-97 | 1755 | 1955 | 5.738 | 6.44 | 4.98 | 24 | 24 | 24 |
| 11-Aug-97 | 1955 | 2155 | 5.561 | 6.3 | 4.88 | 24 | 24 | 24 |
| 11-Aug-97 | 2155 | 2355 | 5.223 | 5.7 | 4.5 | 23.92 | 24 | 23.9 |
| 11-Aug-97 | 2155 | 2355 | 6.99 | 7.76 | 6.12 | 24.48 | 24.5 | 24.4 |
| 11-Aug-97 | 2355 | 155 | 4.987 | 5.5 | 4.4 | 23.9 | 23.9 | 23.86 |
| 12-Aug-97 | 155 | 355 | 5.265 | 5.6 | 4.46 | 23.82 | 23.9 | 23.8 |
| 12-Aug-97 | 355 | 555 | 4.827 | 5.3 | 4.08 | 23.76 | 23.8 | 23.7 |
| 12-Aug-97 | 555 | 755 | 4.537 | 5 | 3.9 | 23.67 | 23.7 | 23.6 |
| 12-Aug-97 | 755 | 955 | 4.595 | 5.02 | 4.06 | 23.55 | 23.6 | 23.5 |
| 12-Aug-97 | 955 | 1155 | 4.488 | 4.94 | 3.92 | 23.5 | 23.58 | 23.5 |
| 12-Aug-97 | 1155 | 1355 | 4.515 | 5.733 | 3.9 | 23.5 | 23.5 | 23.5 |
| 12-Aug-97 | 1355 | 1555 | 5.004 | 8.262 | 3.98 | 23.48 | 23.5 | 22.7 |
| 12-Aug-97 | 1555 | 1755 | 4.834 | 5.4 | 4.16 | 23.49 | 23.5 | 23.4 |
| 12-Aug-97 | 1755 | 1955 | 4.791 | 5.3 | 4.26 | 23.42 | 23.5 | 23.4 |
| 12-Aug-97 | 1955 | 2155 | 4.782 | 5.2 | 4.24 | 23.4 | 23.4 | 23.4 |
| 12-Aug-97 | 2155 | 2355 | 4.896 | 5.3 | 5.2 | 23.39 | 23.4 | 23.3 |
| 12-Aug-97 | 2355 | 155 | 4.421 | 4.8 | 3.84 | 23.31 | 23.4 | 23.3 |
| 13-Aug-97 | 155 | 355 | 4.353 | 4.9 | 3.78 | 23.3 | 23.3 | 23.3 |
| 13-Aug-97 | 355 | 555 | 4.577 | 5.28 | 4 | 23.28 | 23.3 | 23.2 |
| 13-Aug-97 | 555 | 755 | 4.916 | 10.13 | 3.66 | 23.15 | 23.3 | 21.27 |
| 13-Aug-97 | 755 | 955 | 4.384 | 5.3 | 3.62 | 23.33 | 23.5 | 23.2 |
| 13-Aug-97 | 955 | 1155 | 5.363 | 6.3 | 4.48 | 23.65 | 23.8 | 23.4 |
| 13-Aug-97 | 1155 | 1355 | 6.076 | 6.8 | 5.56 | 24.03 | 24.3 | 23.8 |
| 13-Aug-97 | 1355 | 1555 | 6.796 | 7.7 | 5.96 | 24.32 | 24.58 | 24.2 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. | Max D.O. | Min D.O. | Ave. Temp. | MaxTemp. | Min Temp. |
|---|---|---|---|---|---|---|---|---|
| | | | (Mg/L) | (Mg/L) | (Mg/L) | ( deg. C ) | ( deg. C ) | ( deg. C ) |
| 13-Aug-97 | 1555 | 1755 | 8.19 | 8.84 | 7.38 | 24.67 | 24.8 | 24.5 |
| 13-Aug-97 | 1755 | 1955 | 9.541 | 10.86 | 8.38 | 24.71 | 24.8 | 24.56 |
| 13-Aug-97 | 1955 | 2155 | 9.082 | 10.44 | 7.94 | 24.48 | 24.7 | 24.3 |
| 13-Aug-97 | 2155 | 2355 | 7.634 | 8.3 | 6.82 | 24.08 | 24.3 | 23.9 |
| 13-Aug-97 | 2355 | 155 | 6.913 | 7.38 | 6.34 | 23.75 | 23.9 | 23.58 |
| 14-Aug-97 | 155 | 355 | 6.464 | 7.7 | 5.4 | 23.59 | 23.7 | 23.5 |
| 14-Aug-97 | 355 | 555 | 5.506 | 6.16 | 4.76 | 23.36 | 23.5 | 23.2 |
| 14-Aug-97 | 555 | 755 | 4.996 | 5.68 | 4.16 | 23.14 | 23.3 | 23.1 |
| 14-Aug-97 | 755 | 955 | 5.072 | 5.5 | 4.58 | 23.1 | 23.1 | 23.06 |
| 14-Aug-97 | 955 | 1155 | 5.289 | 5.7 | 4.76 | 23.1 | 23.1 | 23 |
| 14-Aug-97 | 1155 | 1355 | 5.436 | 9.16 | 3.76 | 22.91 | 24.18 | 18 |
| 14-Aug-97 | 1355 | 1555 | 4.821 | 5.24 | 4.3 | 23 | 23.1 | 22.94 |
| 14-Aug-97 | 1555 | 1755 | 4.848 | 5.2 | 4.46 | 23.01 | 23.1 | 23 |
| 14-Aug-97 | 1755 | 1955 | 4.765 | 5.3 | 4.3 | 23 | 23 | 23 |
| 14-Aug-97 | 1955 | 2155 | 4.599 | 4.9 | 4.12 | 23 | 23 | 22.9 |
| 14-Aug-97 | 2155 | 2355 | 4.235 | 4.7 | 3.68 | 22.91 | 23 | 22.9 |
| 14-Aug-97 | 2355 | 155 | 4.3 | 4.54 | 3.88 | 22.83 | 22.9 | 22.8 |
| 15-Aug-97 | 155 | 355 | 4.327 | 4.52 | 3.98 | 22.8 | 22.8 | 22.8 |
| 15-Aug-97 | 355 | 555 | 4.185 | 4.4 | 3.68 | 22.8 | 22.8 | 22.8 |
| 15-Aug-97 | 555 | 755 | 4.092 | 4.5 | 3.44 | 22.76 | 22.8 | 22.7 |
| 15-Aug-97 | 755 | 955 | 3.852 | 4.76 | 3.04 | 22.74 | 22.8 | 22.7 |
| 15-Aug-97 | 955 | 1155 | 4.704 | 5 | 3.94 | 22.9 | 23 | 22.8 |
| 15-Aug-97 | 1155 | 1355 | 5.387 | 5.9 | 4.64 | 23.24 | 23.5 | 22.9 |
| 15-Aug-97 | 1355 | 1555 | 5.334 | 6.9 | 3.82 | 23.31 | 24.08 | 22.7 |
| 15-Aug-97 | 1555 | 1755 | 4.937 | 5.82 | 3.94 | 23.01 | 23.24 | 22.7 |
| 15-Aug-97 | 1755 | 1955 | 5.275 | 6 | 4.6 | 22.87 | 23.12 | 22.8 |
| 15-Aug-97 | 1955 | 2155 | 4.86 | 5.44 | 4.18 | 22.84 | 23 | 22.7 |
| 15-Aug-97 | 2155 | 2355 | 4.393 | 4.9 | 3.88 | 22.64 | 22.8 | 22.6 |
| 15-Aug-97 | 2355 | 155 | 4.709 | 5.32 | 4.2 | 22.77 | 23 | 22.7 |
| 16-Aug-97 | 155 | 355 | 4.988 | 5.4 | 4.6 | 23 | 23 | 22.9 |
| 16-Aug-97 | 355 | 555 | 5.241 | 5.76 | 4.78 | 23 | 23 | 23 |
| 16-Aug-97 | 555 | 755 | 5.542 | 5.88 | 5.02 | 22.88 | 23 | 22.8 |
| 16-Aug-97 | 755 | 955 | 5.896 | 6.54 | 5.16 | 23.05 | 23.2 | 22.82 |
| 16-Aug-97 | 955 | 1155 | 6.177 | 6.8 | 5.3 | 23.37 | 23.64 | 23.1 |
| 16-Aug-97 | 1155 | 1355 | 6.379 | 7.88 | 4.22 | 23.55 | 24.42 | 22.9 |
| 16-Aug-97 | 1355 | 1555 | 10.75 | 13.76 | 7.32 | 24.8 | 25.38 | 23.6 |
| 16-Aug-97 | 1555 | 1755 | 12.11 | 14.84 | 10.42 | 24.91 | 25.3 | 24.6 |
| 16-Aug-97 | 1755 | 1955 | 10.82 | 12.9 | 9.8 | 24.45 | 24.7 | 24.26 |
| 16-Aug-97 | 1955 | 2155 | 12.13 | 13.18 | 10.38 | 24.36 | 24.56 | 24.2 |
| 16-Aug-97 | 2155 | 2355 | 11.42 | 12.16 | 9.14 | 24.04 | 24.2 | 23.8 |
| 16-Aug-97 | 2355 | 155 | 10.03 | 11.8 | 8.52 | 23.7 | 23.88 | 23.54 |
| 17-Aug-97 | 155 | 355 | 6.85 | 9.46 | 4.34 | 23.46 | 23.6 | 23.3 |
| 17-Aug-97 | 355 | 555 | 2.867 | 5.16 | 1.5 | 23.34 | 23.4 | 23.2 |
| 17-Aug-97 | 555 | 755 | 0.9239 | 1.6 | 0.6 | 23.16 | 23.3 | 23.1 |
| 17-Aug-97 | 755 | 955 | 0.4449 | 0.6 | 0.4 | 23.06 | 23.1 | 23 |
| 17-Aug-97 | 955 | 1155 | 0.3108 | 0.4 | 0.3 | 22.92 | 23 | 22.88 |
| 17-Aug-97 | 1155 | 1355 | 0.3 | 0.3 | 0.3 | 22.78 | 22.9 | 22.7 |
| 17-Aug-97 | 1355 | 1555 | 0.3 | 0.3 | 0.3 | 22.66 | 22.7 | 22.6 |
| 17-Aug-97 | 1555 | 1755 | 0.3035 | 0.4 | 0.3 | 22.6 | 22.6 | 22.6 |
| 17-Aug-97 | 1755 | 1955 | 0.3267 | 0.4 | 0.3 | 22.52 | 22.6 | 22.5 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 17-Aug-97 | 1955 | 2155 | 0.3158 | 0.4 | 0.3 | 22.43 | 22.5 | 22.3 |
| 17-Aug-97 | 2155 | 2355 | 0.304 | 0.4 | 0.3 | 22.29 | 22.3 | 22.2 |
| 17-Aug-97 | 2355 | 155 | 0.3 | 0.3 | 0.3 | 22.2 | 22.2 | 22.2 |
| 18-Aug-97 | 155 | 355 | 0.3 | 0.3 | 0.3 | 22.15 | 22.2 | 22.1 |
| 18-Aug-97 | 355 | 555 | 0.3 | 0.3 | 0.3 | 22.09 | 22.1 | 22 |
| 18-Aug-97 | 555 | 755 | 0.3 | 0.3 | 0.3 | 22.01 | 22.1 | 22 |
| 18-Aug-97 | 755 | 955 | 0.3 | 0.3 | 0.3 | 21.99 | 22 | 21.9 |
| 18-Aug-97 | 955 | 1155 | 1.002 | 39.94 | 0.3 | 21.9 | 25.08 | 18.68 |
| 18-Aug-97 | 1155 | 1355 | 6.664 | 15.54 | 5.88 | 22.6 | 26.64 | 22.26 |
| 18-Aug-97 | 1355 | 1555 | 7.667 | 9.1 | 6.44 | 22.99 | 23.3 | 22.5 |
| 18-Aug-97 | 1555 | 1755 | 8.777 | 9.76 | 7.14 | 22.98 | 23.2 | 22.7 |
| 18-Aug-97 | 1755 | 1955 | 9.387 | 10.5 | 7.92 | 22.96 | 23.1 | 22.74 |
| 18-Aug-97 | 1955 | 2155 | 8.52 | 9.5 | 7.5 | 22.65 | 22.8 | 22.5 |
| 18-Aug-97 | 2155 | 2355 | 8.058 | 8.98 | 7.18 | 22.45 | 22.5 | 22.3 |
| 18-Aug-97 | 2355 | 155 | 8.006 | 8.8 | 6.96 | 22.39 | 22.5 | 22.2 |
| 19-Aug-97 | 155 | 355 | 7.126 | 7.7 | 6.16 | 22.08 | 22.2 | 22 |
| 19-Aug-97 | 355 | 555 | 6.466 | 7 | 5.8 | 22 | 22 | 21.92 |
| 19-Aug-97 | 555 | 755 | 6.565 | 8.642 | 5.52 | 21.81 | 22 | 20 |
| 19-Aug-97 | 755 | 955 | 6.763 | 7.4 | 5.7 | 22.03 | 22.1 | 21.9 |
| 19-Aug-97 | 955 | 1155 | 7.11 | 7.5 | 6.4 | 22.08 | 22.1 | 22 |
| 19-Aug-97 | 1155 | 1355 | 6.583 | 7.14 | 5.84 | 22.01 | 22.1 | 22 |
| 19-Aug-97 | 1355 | 1555 | 6.39 | 7.06 | 5.72 | 22 | 22 | 21.9 |
| 19-Aug-97 | 1555 | 1755 | 6.604 | 7.2 | 5.92 | 21.98 | 22 | 21.9 |
| 19-Aug-97 | 1755 | 1955 | 6.418 | 6.84 | 5.56 | 21.9 | 21.9 | 21.88 |
| 19-Aug-97 | 1955 | 2155 | 5.793 | 6.54 | 5.04 | 21.83 | 21.9 | 21.8 |
| 19-Aug-97 | 2155 | 2355 | 5.881 | 6.3 | 5.04 | 21.8 | 21.8 | 21.8 |
| 19-Aug-97 | 2355 | 155 | 6.19 | 6.62 | 5.22 | 21.8 | 21.82 | 21.8 |
| 20-Aug-97 | 155 | 355 | 5.578 | 6.4 | 4.88 | 21.77 | 21.8 | 21.7 |
| 20-Aug-97 | 355 | 555 | 5.816 | 6.3 | 4.9 | 21.7 | 21.8 | 21.7 |
| 20-Aug-97 | 555 | 755 | 6.134 | 9.172 | 5.3 | 21.61 | 21.7 | 20.01 |
| 20-Aug-97 | 755 | 955 | 6.722 | 7.12 | 5.86 | 21.7 | 21.7 | 21.7 |
| 20-Aug-97 | 955 | 1155 | 6.739 | 7.3 | 6 | 21.79 | 21.8 | 21.7 |
| 20-Aug-97 | 1155 | 1355 | 7.173 | 7.7 | 6.52 | 21.84 | 22 | 21.8 |
| 20-Aug-97 | 1355 | 1555 | 7.007 | 7.6 | 6.12 | 21.78 | 21.84 | 21.7 |
| 20-Aug-97 | 1555 | 1755 | 7 | 7.52 | 6.06 | 21.76 | 21.8 | 21.7 |
| 20-Aug-97 | 1755 | 1955 | 6.879 | 7.4 | 5.72 | 21.72 | 21.8 | 21.7 |
| 20-Aug-97 | 1955 | 2155 | 6.625 | 7.2 | 5.48 | 21.67 | 21.7 | 21.6 |
| 20-Aug-97 | 2155 | 2355 | 6.043 | 6.68 | 5.22 | 21.6 | 21.68 | 21.5 |
| 20-Aug-97 | 2355 | 155 | 6.099 | 6.66 | 5.3 | 21.55 | 21.6 | 21.5 |
| 21-Aug-97 | 155 | 355 | 6.383 | 6.64 | 5.78 | 21.46 | 21.5 | 21.4 |
| 21-Aug-97 | 355 | 555 | 6.351 | 6.6 | 5.8 | 21.41 | 21.5 | 21.38 |
| 21-Aug-97 | 555 | 755 | 6.577 | 9.567 | 5.66 | 21.23 | 21.4 | 18.42 |
| 21-Aug-97 | 755 | 955 | 6.434 | 7.04 | 5.68 | 21.42 | 21.6 | 21.3 |
| 21-Aug-97 | 955 | 1155 | 6.848 | 7.68 | 5.92 | 21.73 | 21.9 | 21.6 |
| 21-Aug-97 | 1155 | 1355 | 7.55 | 8.26 | 6.86 | 21.92 | 22.1 | 21.8 |
| 21-Aug-97 | 1355 | 1555 | 7.944 | 8.58 | 7.1 | 21.97 | 22.1 | 21.84 |
| 21-Aug-97 | 1555 | 1755 | 8.112 | 9.02 | 7.1 | 21.92 | 22.1 | 21.8 |
| 21-Aug-97 | 1755 | 1955 | 8.457 | 9.18 | 7.26 | 21.93 | 22.1 | 21.74 |
| 21-Aug-97 | 1955 | 2155 | 7.668 | 8.3 | 6.84 | 21.65 | 21.8 | 21.6 |
| 21-Aug-97 | 2155 | 2355 | 7.626 | 8.34 | 6.4 | 21.62 | 21.7 | 21.5 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 22-Aug-97 | 355 | 555 | 6.573 | 7.24 | 5.9 | 21.26 | 21.3 | 21.2 |
| 22-Aug-97 | 555 | 755 | 6.506 | 6.94 | 5.54 | 21.14 | 21.2 | 21.1 |
| 22-Aug-97 | 755 | 955 | 6.697 | 7.4 | 5.78 | 21.2 | 21.4 | 21.1 |
| 22-Aug-97 | 955 | 1155 | 6.881 | 7.42 | 6 | 21.52 | 21.62 | 21.4 |
| 22-Aug-97 | 1155 | 1355 | 7.215 | 8.24 | 6.48 | 21.73 | 21.9 | 21.6 |
| 22-Aug-97 | 1355 | 1555 | 7.73 | 8.4 | 6.92 | 22.12 | 22.6 | 21.8 |
| 22-Aug-97 | 1555 | 1755 | 8.153 | 9.02 | 7.32 | 22.45 | 22.6 | 22.4 |
| 22-Aug-97 | 1755 | 1955 | 8.162 | 9.02 | 6.8 | 22.21 | 22.4 | 21.9 |
| 22-Aug-97 | 1955 | 2155 | 8.868 | 9.7 | 7.36 | 21.89 | 22 | 21.7 |
| 22-Aug-97 | 2155 | 2355 | 8.76 | 9.6 | 7.54 | 21.72 | 21.8 | 21.6 |
| 22-Aug-97 | 2355 | 155 | 8.493 | 9.74 | 7.24 | 21.59 | 21.7 | 21.5 |
| 23-Aug-97 | 155 | 355 | 7.888 | 8.9 | 7.02 | 21.4 | 21.5 | 21.3 |
| 23-Aug-97 | 355 | 555 | 7.432 | 8.36 | 6.56 | 21.2 | 21.3 | 21.1 |
| 23-Aug-97 | 555 | 755 | 6.935 | 7.64 | 6.14 | 21.04 | 21.1 | 20.92 |
| 23-Aug-97 | 755 | 955 | 6.969 | 7.58 | 6.32 | 20.96 | 21 | 20.9 |
| 23-Aug-97 | 955 | 1155 | 6.864 | 7.46 | 5.76 | 20.92 | 21 | 20.9 |
| 23-Aug-97 | 1155 | 1355 | 6.735 | 7.5 | 6.1 | 20.91 | 21 | 20.86 |
| 23-Aug-97 | 1355 | 1555 | 7.047 | 8.18 | 5.84 | 21.05 | 21.24 | 20.9 |
| 23-Aug-97 | 1555 | 1755 | 7.439 | 8.2 | 6.44 | 21.04 | 21.2 | 20.98 |
| 23-Aug-97 | 1755 | 1955 | 6.583 | 7.28 | 5.4 | 20.96 | 21 | 20.82 |
| 23-Aug-97 | 1955 | 2155 | 5.745 | 6.52 | 4.9 | 20.82 | 20.9 | 20.8 |
| 23-Aug-97 | 2155 | 2355 | 6.466 | 6.9 | 5.78 | 20.9 | 20.9 | 20.88 |
| 23-Aug-97 | 2355 | 155 | 6.565 | 7.12 | 5.92 | 20.9 | 20.9 | 20.9 |
| 24-Aug-97 | 155 | 355 | 6.614 | 7.02 | 5.78 | 20.83 | 20.9 | 20.8 |
| 24-Aug-97 | 355 | 555 | 6.575 | 7.62 | 5.52 | 20.78 | 20.8 | 20.7 |
| 24-Aug-97 | 555 | 755 | 6.703 | 7.56 | 5.8 | 20.76 | 20.8 | 20.7 |
| 24-Aug-97 | 755 | 955 | 7.102 | 7.7 | 5.86 | 20.75 | 20.8 | 20.7 |
| 24-Aug-97 | 955 | 1155 | 6.89 | 7.48 | 5.96 | 20.74 | 20.84 | 20.7 |
| 24-Aug-97 | 1155 | 1355 | 7.068 | 7.74 | 6.34 | 20.87 | 21.1 | 20.7 |
| 24-Aug-97 | 1355 | 1555 | 7.698 | 8.46 | 6.64 | 21.1 | 21.3 | 20.72 |
| 24-Aug-97 | 1555 | 1755 | 8.067 | 8.7 | 7.28 | 21.34 | 21.5 | 21.1 |
| 24-Aug-97 | 1755 | 1955 | 8.517 | 9.36 | 7.42 | 21.05 | 21.4 | 20.92 |
| 24-Aug-97 | 1955 | 2155 | 8.527 | 9.38 | 7.54 | 20.95 | 21 | 20.9 |
| 24-Aug-97 | 2155 | 2355 | 9.061 | 10.48 | 7.44 | 20.86 | 20.9 | 20.8 |
| 24-Aug-97 | 2355 | 155 | 9.224 | 10.1 | 8.44 | 20.79 | 20.8 | 20.7 |
| 25-Aug-97 | 155 | 355 | 8.324 | 9.12 | 7.5 | 20.7 | 20.7 | 20.7 |
| 25-Aug-97 | 355 | 555 | 8.471 | 9.34 | 7.32 | 20.61 | 20.7 | 20.56 |
| 25-Aug-97 | 755 | 955 | 7.12 | 7.88 | 6.66 | 20.5 | 20.52 | 20.5 |
| 25-Aug-97 | 955 | 1155 | 7.397 | 9 | 6.3 | 20.63 | 20.9 | 20.5 |
| 25-Aug-97 | 1155 | 1355 | 6.988 | 9.1 | 5.76 | 20.56 | 20.94 | 20.5 |
| 25-Aug-97 | 1355 | 1555 | 8.208 | 9.5 | 7.1 | 20.71 | 20.98 | 20.6 |
| 25-Aug-97 | 1555 | 1755 | 9.361 | 10.74 | 8.22 | 21.09 | 21.46 | 20.86 |
| 25-Aug-97 | 1755 | 1955 | 8.755 | 10.84 | 6.96 | 20.97 | 21.52 | 20.62 |
| 25-Aug-97 | 1955 | 2155 | 9.168 | 11.18 | 6.76 | 21.03 | 21.38 | 20.6 |
| 25-Aug-97 | 2155 | 2355 | 9.965 | 11.4 | 8.56 | 21.18 | 21.3 | 21.06 |
| 25-Aug-97 | 2355 | 155 | 10.11 | 11.28 | 9 | 21.07 | 21.1 | 20.9 |
| 26-Aug-97 | 155 | 355 | 9.508 | 10.88 | 7.3 | 20.89 | 21 | 20.64 |
| 26-Aug-97 | 355 | 555 | 8.751 | 9.6 | 7.36 | 20.7 | 20.8 | 20.56 |
| 26-Aug-97 | 555 | 755 | 8.984 | 10.2 | 7.44 | 20.53 | 20.7 | 18.92 |
| 26-Aug-97 | 755 | 955 | 9.653 | 11.7 | 7.98 | 20.7 | 20.9 | 20.5 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 26-Aug-97 | 955 | 1155 | 9.977 | 11.48 | 8.28 | 20.88 | 21.08 | 20.7 |
| 26-Aug-97 | 1155 | 1355 | 10.17 | 13.02 | 7.68 | 20.99 | 21.8 | 20.6 |
| 26-Aug-97 | 1355 | 1555 | 10.57 | 12.52 | 8.86 | 21.08 | 21.52 | 20.8 |
| 26-Aug-97 | 1555 | 1755 | 10.91 | 12.32 | 8.66 | 21.22 | 21.5 | 20.8 |
| 26-Aug-97 | 1755 | 1955 | 9.768 | 12.1 | 7.88 | 21.05 | 21.5 | 20.68 |
| 26-Aug-97 | 1955 | 2155 | 9.428 | 12 | 7.9 | 20.95 | 21.68 | 20.5 |
| 26-Aug-97 | 2155 | 2355 | 9.46 | 11.54 | 7.74 | 20.98 | 21.6 | 20.62 |
| 26-Aug-97 | 2355 | 155 | 9.387 | 10.4 | 8.38 | 20.92 | 21.2 | 20.7 |
| 27-Aug-97 | 155 | 355 | 9.083 | 10.04 | 7.72 | 20.8 | 21 | 20.6 |
| 27-Aug-97 | 355 | 555 | 9.642 | 10.94 | 8.3 | 21.12 | 21.3 | 20.84 |
| 27-Aug-97 | 555 | 755 | 9.317 | 10.4 | 7.8 | 20.97 | 21.2 | 20.08 |
| 27-Aug-97 | 755 | 955 | 9.231 | 10.02 | 7.62 | 20.87 | 21 | 20.68 |
| 27-Aug-97 | 955 | 1155 | 8.786 | 9.64 | 7.5 | 20.83 | 20.96 | 20.7 |
| 27-Aug-97 | 1155 | 1355 | 9.365 | 9.98 | 8.08 | 20.93 | 21.04 | 20.76 |
| 27-Aug-97 | 1355 | 1555 | 8.803 | 10.36 | 7.4 | 20.87 | 21.6 | 20.7 |
| 27-Aug-97 | 1555 | 1755 | 9.097 | 10.24 | 7.5 | 21 | 21.6 | 20.72 |
| 27-Aug-97 | 1755 | 1955 | 8.769 | 10.1 | 6.5 | 20.99 | 21.38 | 20.52 |
| 27-Aug-97 | 1955 | 2155 | 9.306 | 10.92 | 7.1 | 21.34 | 21.7 | 20.7 |
| 27-Aug-97 | 2155 | 2355 | 8.791 | 10.26 | 7.48 | 21.19 | 21.52 | 20.82 |
| 27-Aug-97 | 2355 | 155 | 8.399 | 9.62 | 7.36 | 21.12 | 21.4 | 20.7 |
| 28-Aug-97 | 155 | 355 | 9.087 | 9.78 | 7.76 | 21.32 | 21.4 | 21.2 |
| 28-Aug-97 | 355 | 555 | 8.38 | 9.6 | 7.22 | 21.11 | 21.3 | 21 |
| 28-Aug-97 | 555 | 755 | 8.597 | 9.44 | 7.22 | 21.11 | 21.2 | 21.02 |
| 28-Aug-97 | 755 | 955 | 9.281 | 9.9 | 8.32 | 21.31 | 21.5 | 21.2 |
| 28-Aug-97 | 955 | 1155 | 10.4 | 11.8 | 9.22 | 21.84 | 22.2 | 21.44 |
| 28-Aug-97 | 1155 | 1355 | 11.34 | 11.96 | 10.6 | 22.65 | 23.2 | 22.16 |
| 28-Aug-97 | 1355 | 1555 | 11.57 | 12.9 | 10.52 | 23.65 | 24.18 | 23.06 |
| 28-Aug-97 | 1555 | 1755 | 12.49 | 13.78 | 11.34 | 23.95 | 24.16 | 23.58 |
| 28-Aug-97 | 1755 | 1955 | 13.5 | 15.18 | 11.74 | 23.82 | 24 | 23.6 |
| 28-Aug-97 | 1955 | 2155 | 14.24 | 16.98 | 12.6 | 23.43 | 23.6 | 23.2 |
| 28-Aug-97 | 2155 | 2355 | 13.36 | 15.12 | 11.98 | 22.98 | 23.2 | 22.66 |
| 28-Aug-97 | 2355 | 155 | 12.57 | 13.7 | 11.16 | 22.66 | 22.8 | 22.52 |
| 29-Aug-97 | 155 | 355 | 12.15 | 13.04 | 11.04 | 22.49 | 22.6 | 22.3 |
| 29-Aug-97 | 355 | 555 | 11.72 | 12.32 | 10.5 | 22.22 | 22.38 | 22.1 |
| 29-Aug-97 | 555 | 755 | 11.17 | 12.22 | 10.16 | 22.01 | 22.1 | 21.9 |
| 29-Aug-97 | 755 | 955 | 11.37 | 12.1 | 10.42 | 22.03 | 22.2 | 21.9 |
| 29-Aug-97 | 955 | 1155 | 11.16 | 12.08 | 10.3 | 21.98 | 22 | 21.9 |
| 29-Aug-97 | 1155 | 1355 | 11.07 | 12 | 10.1 | 21.94 | 22 | 21.9 |
| 29-Aug-97 | 1355 | 1555 | 12.09 | 18.9 | 10.6 | 22.18 | 22.5 | 21.9 |
| 29-Aug-97 | 1555 | 1755 | 14.17 | 15.4 | 12.5 | 22.76 | 22.98 | 22.4 |
| 29-Aug-97 | 1755 | 1955 | 14.49 | 15.92 | 13.1 | 22.96 | 23.2 | 22.7 |
| 29-Aug-97 | 1955 | 2155 | 13.94 | 15.16 | 12.44 | 22.84 | 23.1 | 22.7 |
| 29-Aug-97 | 2155 | 2355 | 13.48 | 15.76 | 11.88 | 22.69 | 22.9 | 22.5 |
| 29-Aug-97 | 2355 | 155 | 12.57 | 13.78 | 10.88 | 22.48 | 22.58 | 22.4 |
| 30-Aug-97 | 155 | 355 | 12.72 | 13.76 | 11.26 | 22.5 | 22.5 | 22.46 |
| 30-Aug-97 | 355 | 555 | 12.39 | 13.6 | 11.3 | 22.45 | 22.5 | 22.4 |
| 30-Aug-97 | 555 | 755 | 11.53 | 12.62 | 10.36 | 22.35 | 22.4 | 22.22 |
| 30-Aug-97 | 755 | 955 | 11.07 | 12.26 | 9.98 | 22.29 | 22.3 | 22.2 |
| 30-Aug-97 | 955 | 1155 | 10.99 | 11.86 | 10.16 | 22.25 | 22.3 | 22.2 |
| 30-Aug-97 | 1155 | 1355 | 10.58 | 11.78 | 9.48 | 22.26 | 22.4 | 22.1 |

Continous D.O. August 1997

| Date | Start Time | End Time | Ave. D.O. (Mg/L) | Max D.O. (Mg/L) | Min D.O. (Mg/L) | Ave. Temp. ( deg. C ) | MaxTemp. ( deg. C ) | Min Temp. ( deg. C ) |
|---|---|---|---|---|---|---|---|---|
| 30-Aug-97 | 1355 | 1555 | 10.48 | 11.74 | 9.04 | 22.25 | 22.3 | 22.1 |
| 30-Aug-97 | 1555 | 1755 | 10.51 | 11.9 | 9.38 | 22.29 | 22.3 | 22.2 |
| 30-Aug-97 | 1755 | 1955 | 10.41 | 12 | 9.1 | 22.23 | 22.3 | 22.1 |
| 30-Aug-97 | 1955 | 2155 | 10.58 | 11.8 | 9.42 | 22.21 | 22.3 | 22.2 |
| 30-Aug-97 | 2155 | 2355 | 10.39 | 11.4 | 8.9 | 22.18 | 22.2 | 22.1 |
| 30-Aug-97 | 2355 | 155 | 10.09 | 10.98 | 8.7 | 22.11 | 22.2 | 22.1 |
| 31-Aug-97 | 155 | 355 | 9.871 | 11 | 8.68 | 22.1 | 22.1 | 22.1 |
| 31-Aug-97 | 355 | 555 | 9.928 | 10.98 | 9 | 22.1 | 22.1 | 22.1 |
| 31-Aug-97 | 555 | 755 | 9.67 | 10.7 | 8.46 | 22.1 | 22.1 | 22 |
| 31-Aug-97 | 755 | 955 | 9.918 | 10.9 | 8.52 | 22.16 | 22.3 | 22.1 |
| 31-Aug-97 | 955 | 1155 | 10.53 | 13.04 | 9.16 | 22.33 | 22.8 | 22.1 |
| 31-Aug-97 | 1155 | 1355 | 12.08 | 13.86 | 9.94 | 23.1 | 25.84 | 22.3 |
| 31-Aug-97 | 1355 | 1555 | 11.97 | 13.34 | 10.46 | 23.28 | 24.78 | 22.42 |
| 31-Aug-97 | 1555 | 1755 | 12.63 | 14.4 | 8.96 | 24.38 | 25.5 | 22.24 |
| 31-Aug-97 | 1755 | 1955 | 12.64 | 15.78 | 10.66 | 24.39 | 25.54 | 23.6 |
| 31-Aug-97 | 1955 | 2155 | 11.54 | 13.12 | 9.8 | 23.87 | 24.1 | 23.22 |
| 31-Aug-97 | 2155 | 2355 | 11.02 | 13.2 | 9.34 | 23.66 | 24.1 | 23.3 |
| 31-Aug-97 | 2355 | 155 | 10.84 | 11.94 | 8.96 | 23.5 | 23.6 | 23.4 |

# APPENDIX D
## Continuous Monitoring Dissolved Oxygen and Temperature Graphs

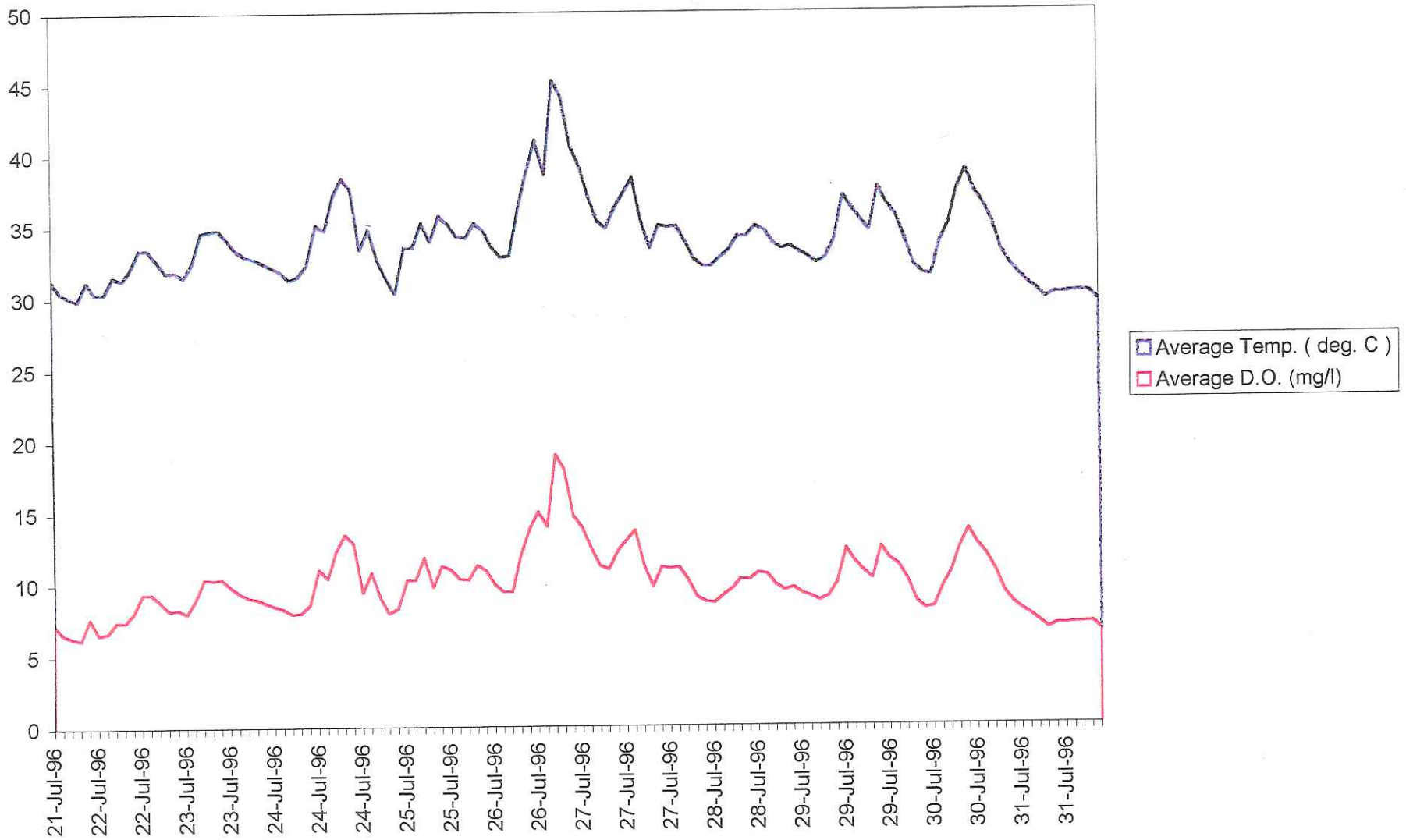
1. July, August, September 1996
2. June, July, August 1997

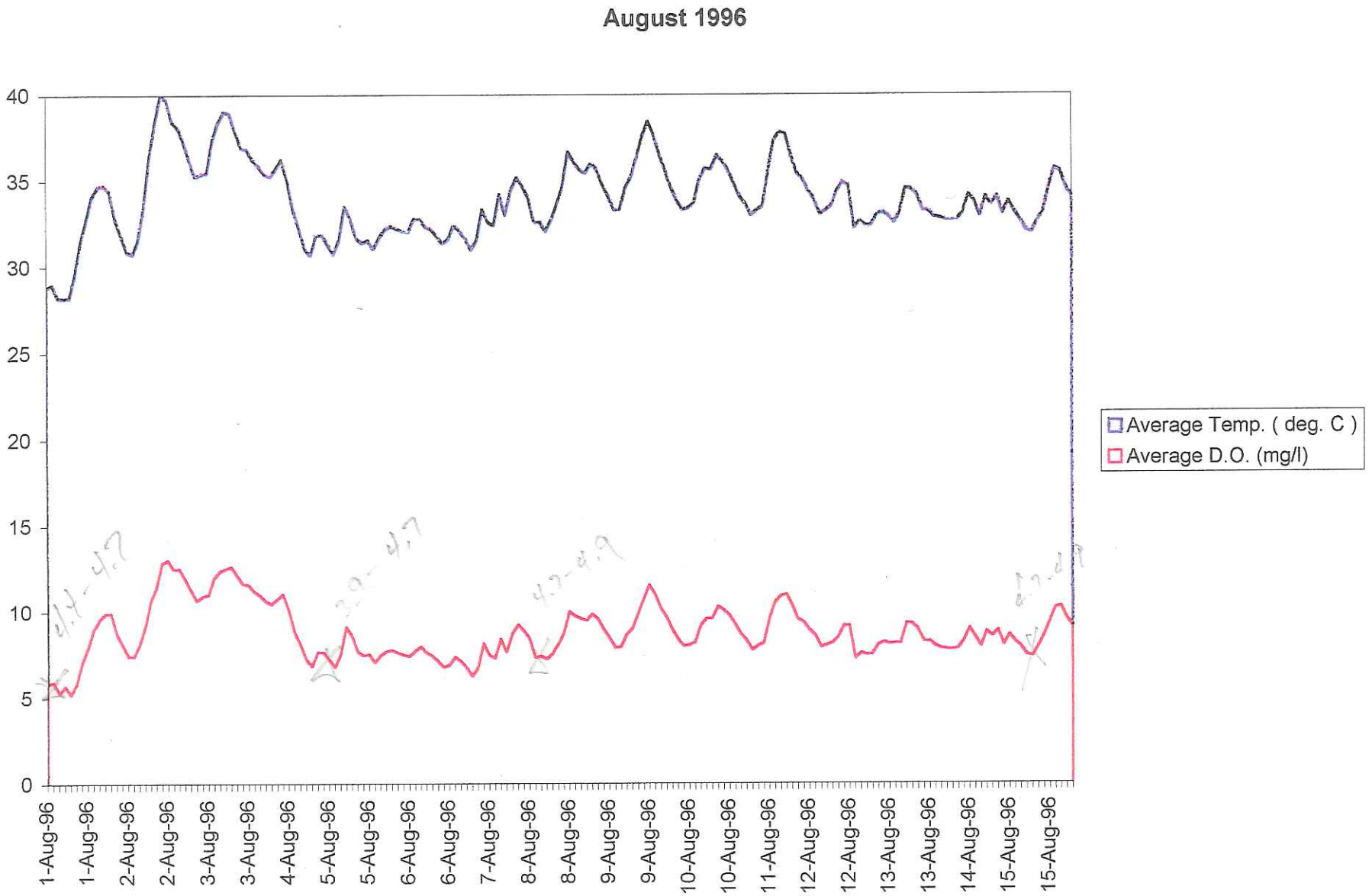
The graphical presentation of the continuous data is divided into monthly graphs spanning the dates shown above. The x-axis of each of the graphs is defined as days of the month. The y-axis is scaled with numerical values from 0 to 40. Both dissolved oxygen and temperature can be read from this axis. The contents of each graph are the two hour average dissolved oxygen values, expressed as mg/L and the two hour average temperature values expressed as degrees Celsius.

## July 1996

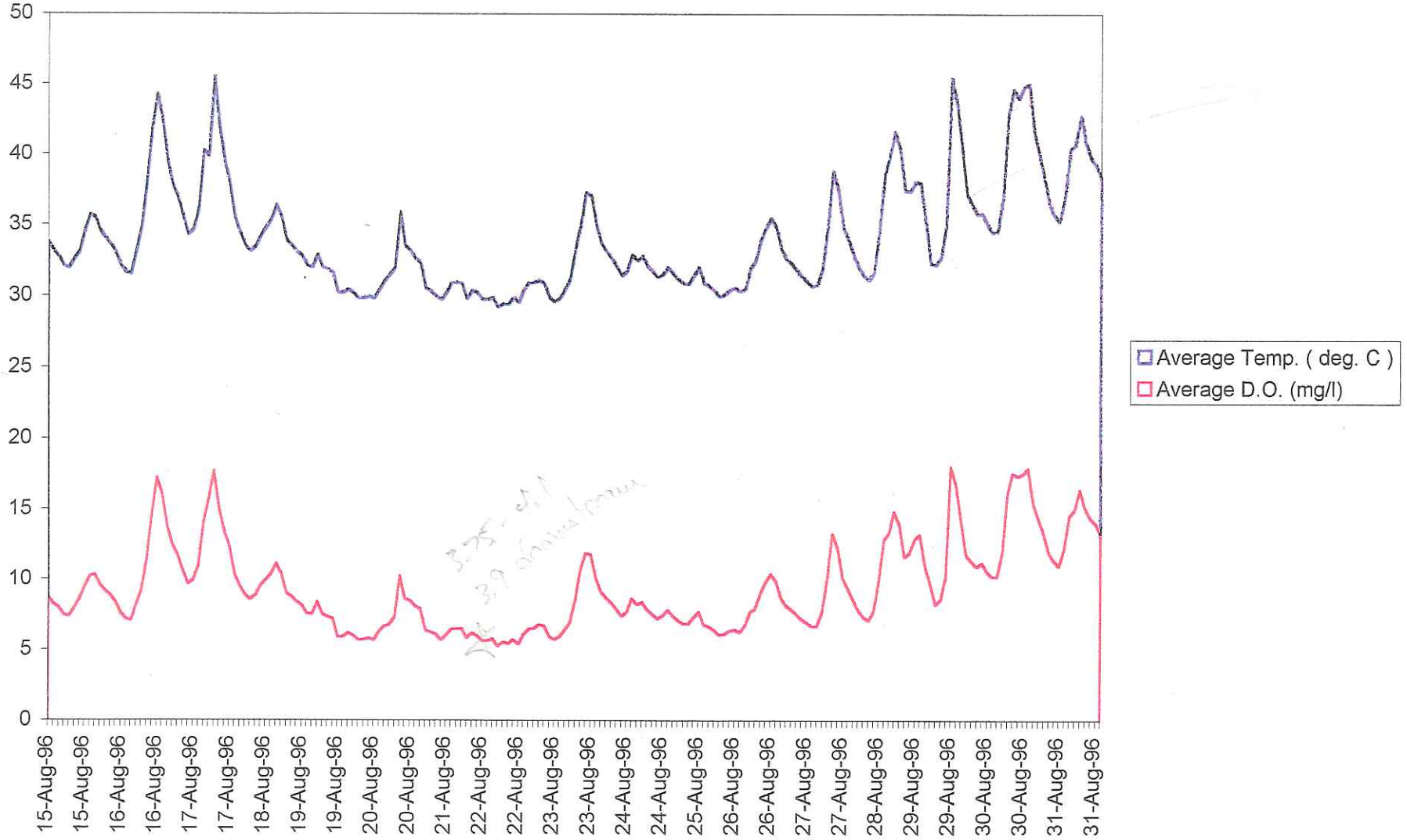

40
35
30
25
20
15
10
5
0
9-Jul-96
9-Jul-96
9-Jul-96
10-Jul-96
10-Jul-96
10-Jul-96
11-Jul-96
11-Jul-96
11-Jul-96
12-Jul-96
12-Jul-96
12-Jul-96
13-Jul-96
13-Jul-96
13-Jul-96
14-Jul-96
14-Jul-96
15-Jul-96
16-Jul-96
17-Jul-96
17-Jul-96
18-Jul-96
19-Jul-96
19-Jul-96
20-Jul-96
Average Temp. ( deg. C )
Average D.O. (mg/l)

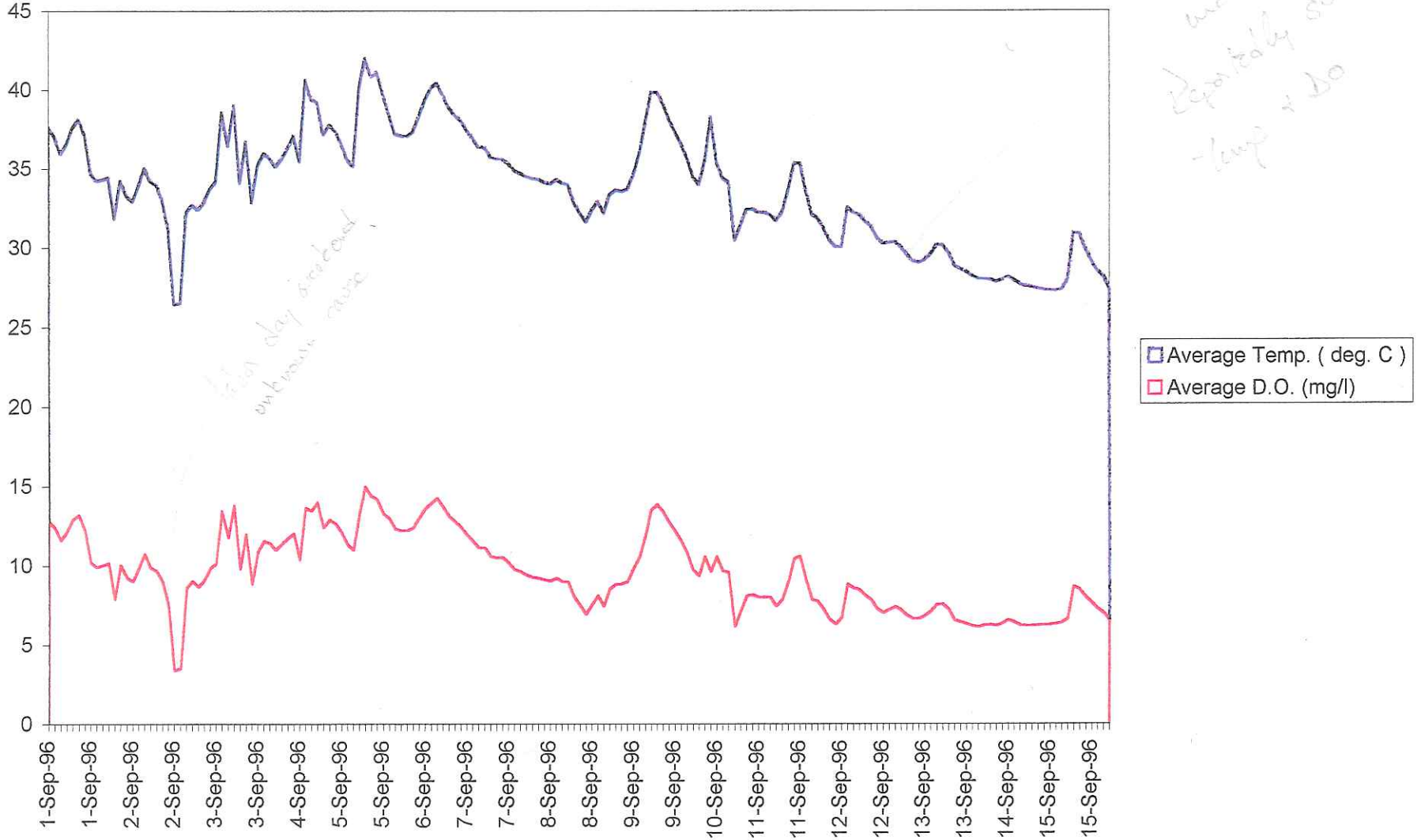
## July 1996


50
45
40
35
30
25
20
15
10
5
0
21-Jul-96
22-Jul-96
22-Jul-96
23-Jul-96
23-Jul-96
24-Jul-96
24-Jul-96
24-Jul-96
25-Jul-96
25-Jul-96
26-Jul-96
26-Jul-96
27-Jul-96
27-Jul-96
27-Jul-96
28-Jul-96
28-Jul-96
29-Jul-96
29-Jul-96
29-Jul-96
30-Jul-96
30-Jul-96
31-Jul-96
31-Jul-96
Average Temp. ( deg. C )
Average D.O. (mg/l)

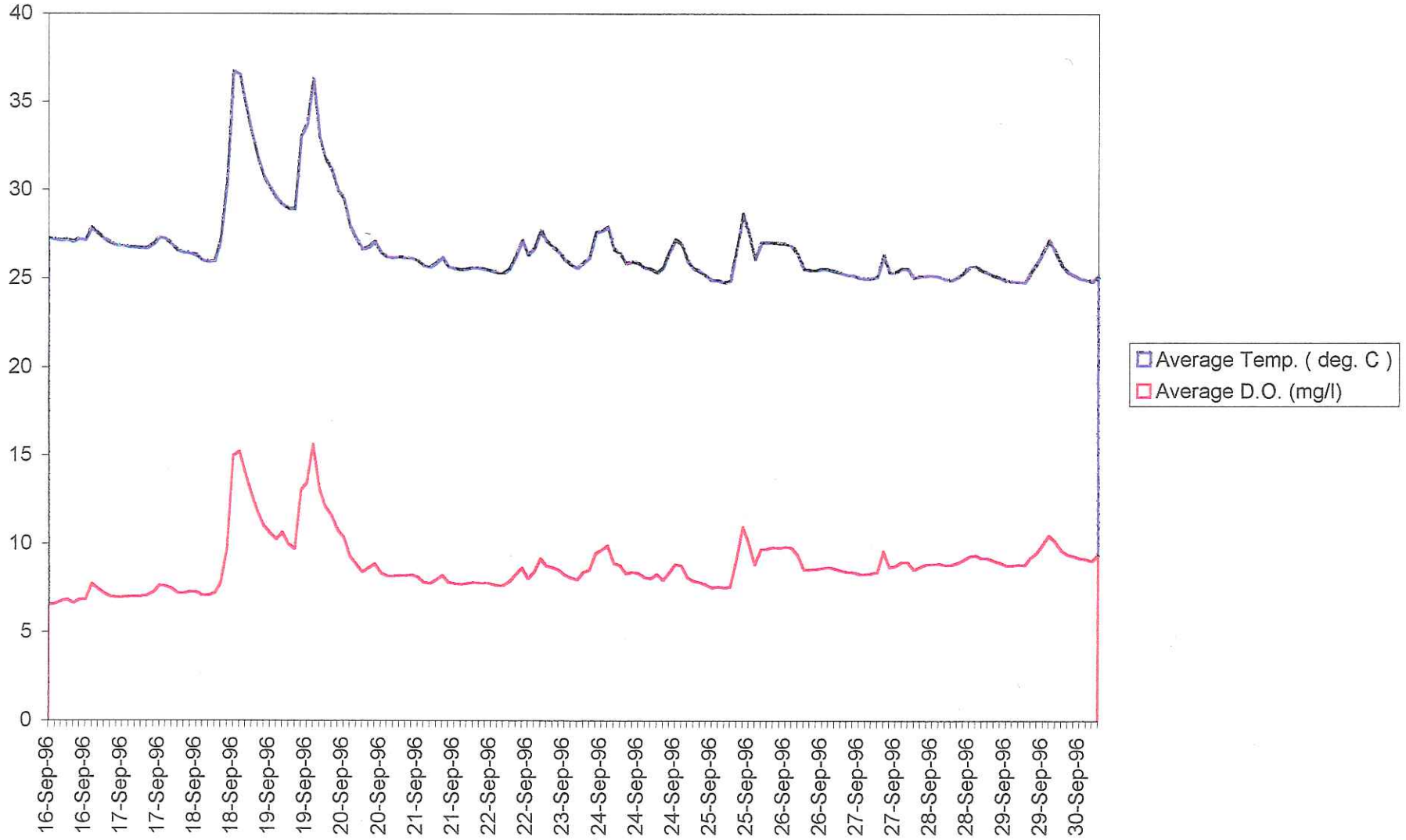

August 1996
40
35
30
25
20
15
10
5
0
1-Aug-96
1-Aug-96
2-Aug-96
2-Aug-96
3-Aug-96
3-Aug-96
4-Aug-96
5-Aug-96
5-Aug-96
6-Aug-96
6-Aug-96
7-Aug-96
8-Aug-96
8-Aug-96
9-Aug-96
9-Aug-96
10-Aug-96
10-Aug-96
11-Aug-96
12-Aug-96
12-Aug-96
13-Aug-96
13-Aug-96
14-Aug-96
15-Aug-96
15-Aug-96
Average Temp. ( deg. C )
Average D.O. (mg/l)

## August 1996

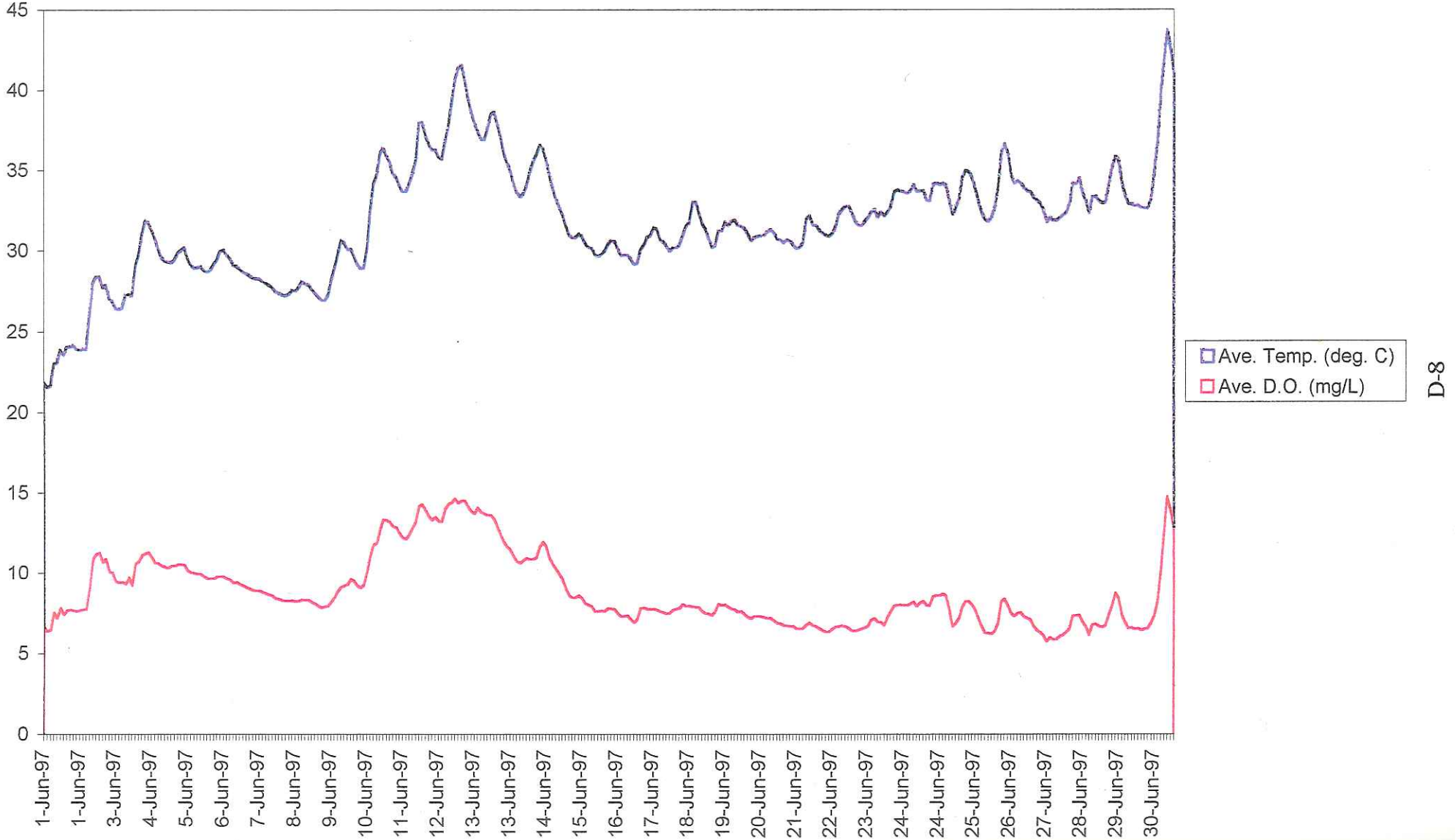

50
45
40
35
30
25
20
15
10
5
0
15-Aug-96
15-Aug-96
16-Aug-96
16-Aug-96
17-Aug-96
17-Aug-96
18-Aug-96
19-Aug-96
19-Aug-96
20-Aug-96
20-Aug-96
21-Aug-96
22-Aug-96
22-Aug-96
23-Aug-96
23-Aug-96
24-Aug-96
24-Aug-96
25-Aug-96
26-Aug-96
26-Aug-96
27-Aug-96
27-Aug-96
28-Aug-96
29-Aug-96
29-Aug-96
30-Aug-96
30-Aug-96
31-Aug-96
31-Aug-96
Average Temp. ( deg. C )
Average D.O. (mg/l)


September 1996
45
40
35
30
25
20
15
10
5
0
1-Sep-96
1-Sep-96
2-Sep-96
2-Sep-96
3-Sep-96
3-Sep-96
4-Sep-96
5-Sep-96
5-Sep-96
6-Sep-96
7-Sep-96
7-Sep-96
8-Sep-96
8-Sep-96
9-Sep-96
9-Sep-96
10-Sep-96
11-Sep-96
11-Sep-96
12-Sep-96
12-Sep-96
13-Sep-96
13-Sep-96
14-Sep-96
15-Sep-96
15-Sep-96
Average Temp. ( deg. C )
Average D.O. (mg/l)

## September 1996



# June 1997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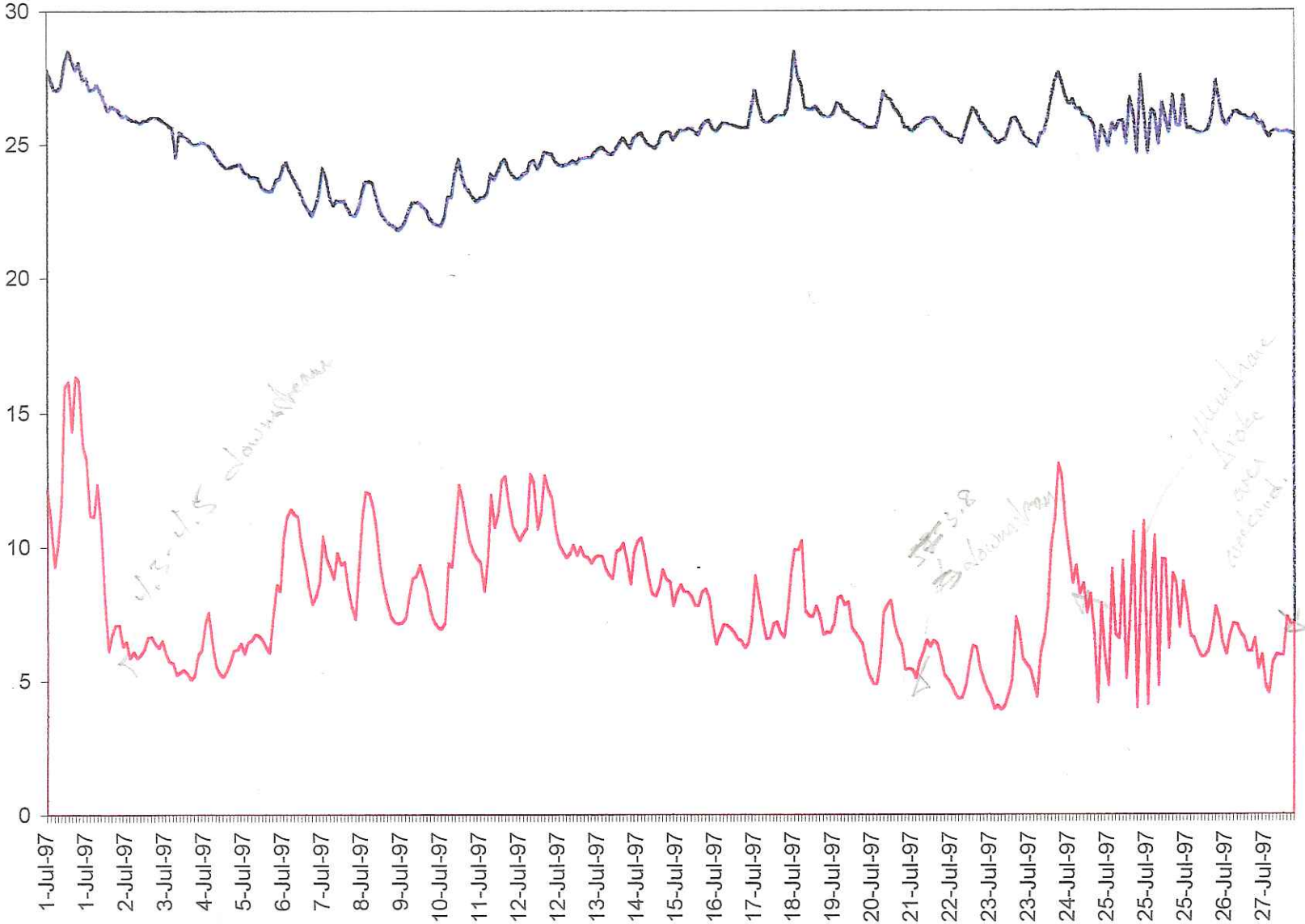
Ave. Temp. (deg. C)
Ave. D.O. (mg/L)

# July 1997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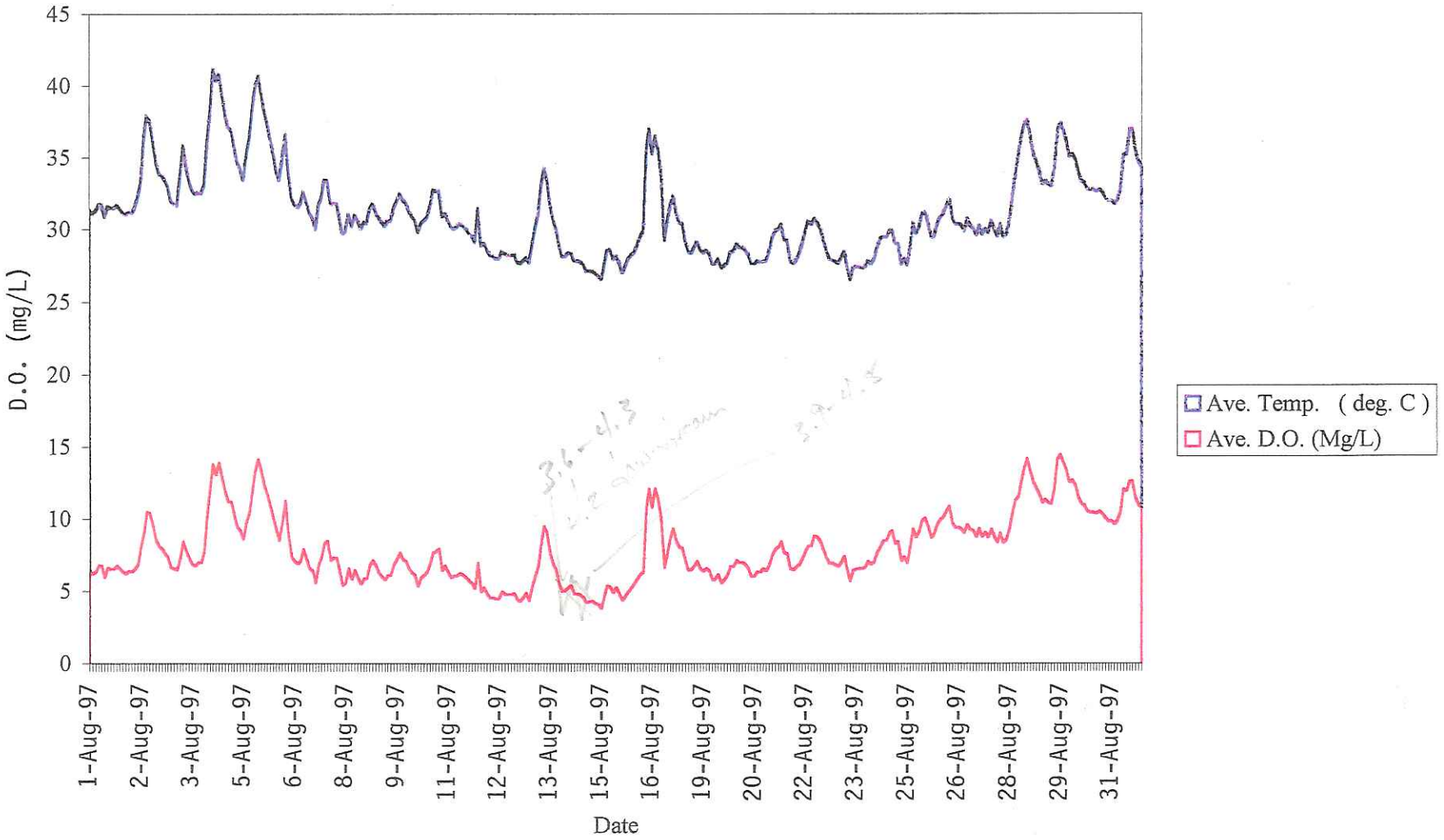
27-Jul-97
Ave. Temp. (deg. C)
Ave. D.O. (mg/L)

# August 1997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D.O. (mg/L)
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3-Aug-97
5-Aug-97
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9-Aug-97
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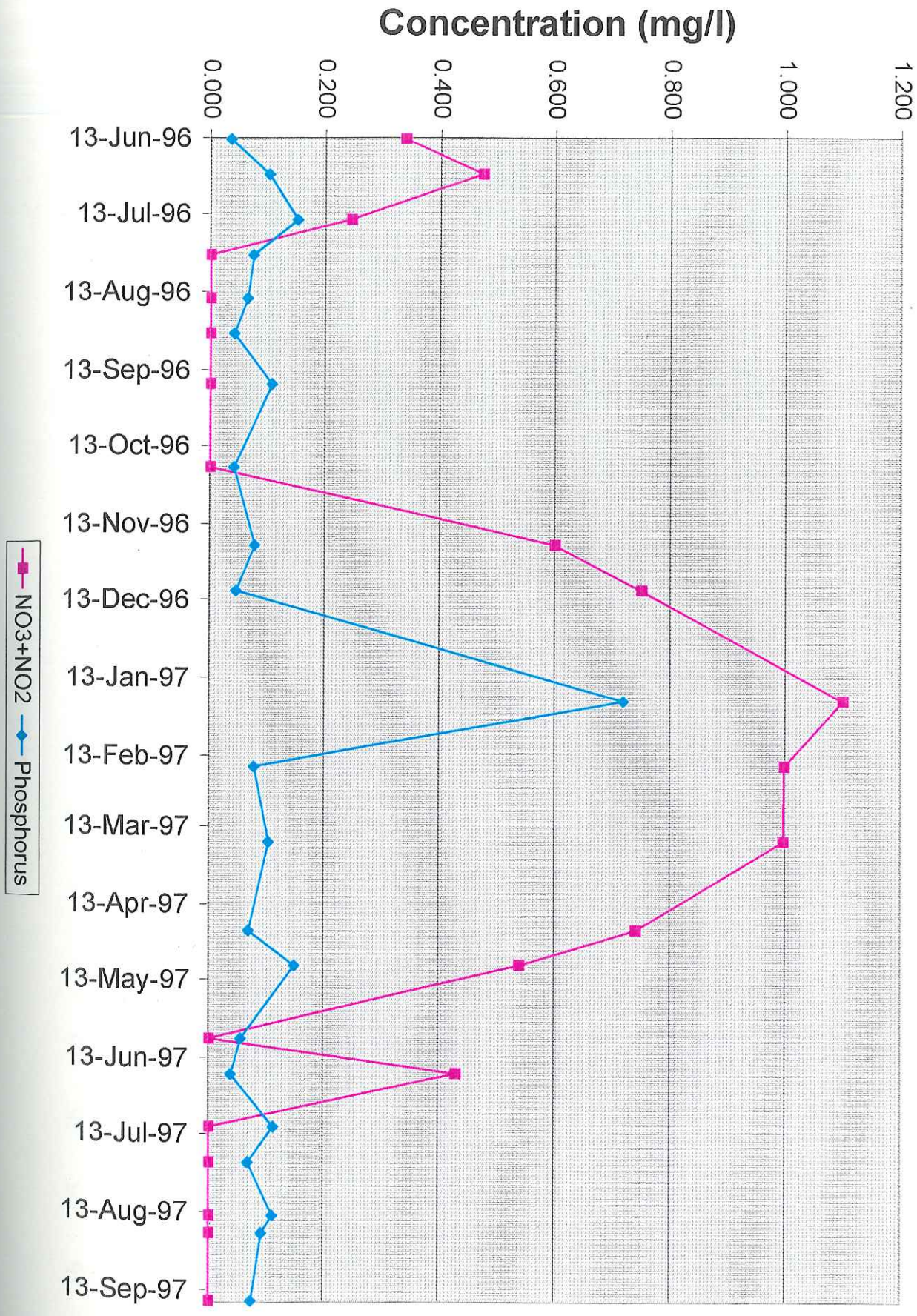
25-Aug-97
26-Aug-97
28-Aug-97
29-Aug-97
31-Aug-97
Date
Ave. Temp. ( deg. C )
Ave. D.O. (Mg/L)

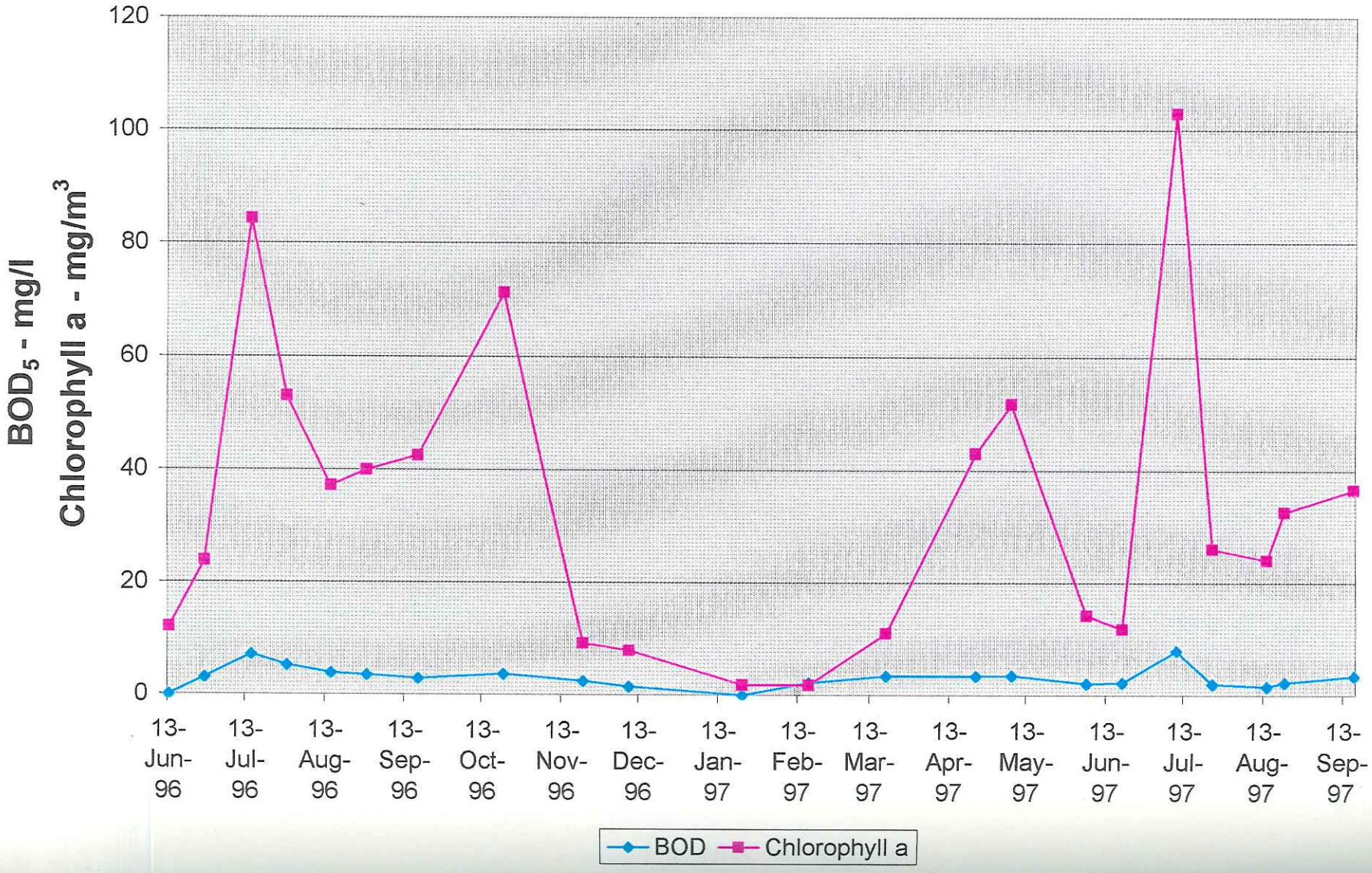
# APPENDIX E
## Chemical Data Laboratory Reports and Graphs

The graphical presentation of this data consists of three graphs that span the duration of the study. The first graph presents the BOD and Chlorophyll A data, the second graph presents the Nitrate+Nitrite as N and Phosphorous data, while the third presents the Ammonia and TKN data. The x-axis of each graph represents the date sampled while the y-axis is concentration in mg/L for all parameters except Chlorophyll A which has units of mg/cubic meter. For plotting purposes non-detect results were assumed to be zero. Included with the graphs are the laboratory analysis reports for each sampling date.

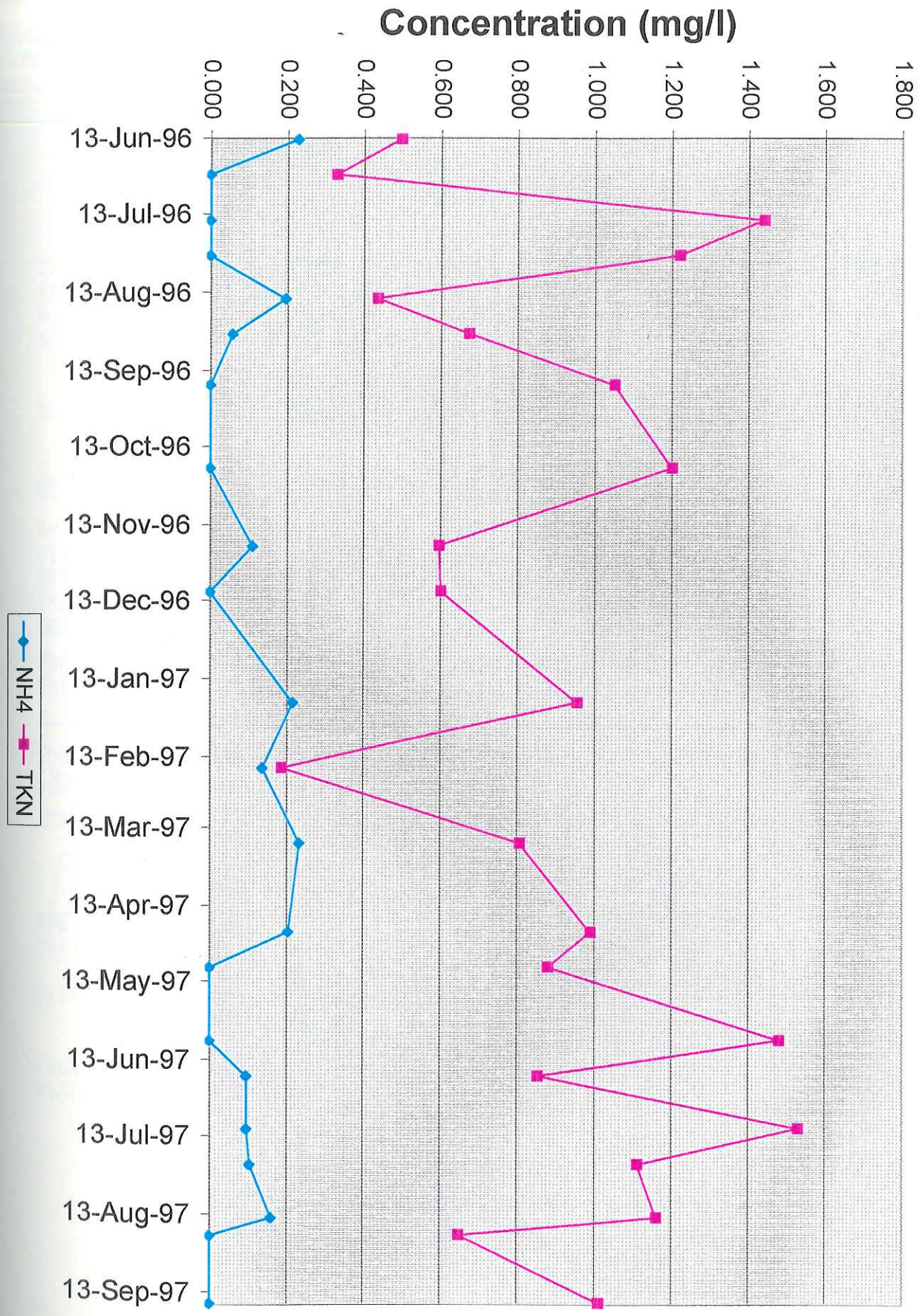
# Lake Wisconsin NO3-NO2 and Phosphorus Levels



# Lake Wisconsin $BOD_5$ and Chlorophyll A Levels



# Lake Wisconsin Ammonia and TKN Levels



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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2103
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1214
REPORT DATE: 16 July 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6462-1 DATE COLLECTED: 06-13-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | 0.229 | mg/L | 0.047 | 0.157 | 06-13-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | 0.338 | mg/L | 0.003 | 0.010 | 06-13-96 | EPA 300.0 |
| NITRITE, NITROGEN | <0.006 | mg/L | 0.006 | 0.020 | 06-13-96 | EPA 300.0 |
| TKN | 0.495 | mg/L | 0.091 | 0.303 | 06-13-96 | SM 18th 4500 N org B |
| $BOD_5$ | <2.0 | mg/L | --- | --- | 06-18-96 | SM 18th Ed. 5210 |
| Phosphorus | 0.036 | mg/L | 0.013 | 0.043 | 06-18-96 | SM 18th Ed4500-PE(B-4 |
| Chlorophyll a | 12.0 | $mg/m^3$ | --- | --- | 06-14-96 | |

LOD - Limit of Detection
LOQ - Limit of Quantitation

COMMENT: Chlorophyll a analysis performed by Mid State Associates, Inc.

Approved By DAVID O. EDWARDS — Date 7/22/96

Approved By GEORGE K. SHALABI — Date 7/22/96

DISTRIBUTION: D. O. Edwards
M. W. Maxwell

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BADGER ARMY AMMUNITION PLANT

LABORATORY REPORT

CHAIN OF CUSTODY #: 2126
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1260
REPORT DATE: 1 August 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6501-1 DATE COLLECTED: 06-27-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | <0.047 | mg/L | 0.047 | 0.157 | 06-27-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | 0.465 | mg/L | 0.003 | 0.010 | 06-27-96 | EPA 300.0 |
| NITRITE, NITROGEN | 0.009 | mg/L | 0.006 | 0.020 | 06-27-96 | EPA 300.0 |
| TKN | 0.328 | mg/L | 0.091 | 0.303 | 06-27-96 | SM 18th 4500 N org B |
| $BOD_5$ | 3.04 | mg/L | --- | --- | 07-02-96 | SM 18th Ed. 5210 |
| Phosphorus | 0.103 | mg/L | 0.013 | 0.043 | 07-11-96 | SM 18th Ed4500-PE(B-4 |
| Chlorophyll a | 23.7 | $mg/m^3$ | --- | --- | 07-02-96 | APHA SM 102008.2 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

COMMENT: Chlorophyll a analysis performed by Mid State Associates, Inc.

Approved By
DAVID O. EDWARDS
8/5/96
Date

Approved By
GEORGE K. SHALABI
8/5/96
Date

DISTRIBUTION: D. O. Edwards
~~M.~~ W. Maxwell

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2151
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1311
REPORT DATE: 20 August 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6559-1 DATE COLLECTED: 07-15-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | <0.047 | mg/L | 0.047 | 0.157 | 07-18-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | 0.245 | mg/L | 0.003 | 0.010 | 07-17-96 | US EPA 300.0 |
| NITRITE, NITROGEN | <0.006 | mg/L | 0.006 | 0.020 | 07-17-96 | US EPA 300.0 |
| TKN | 1.44 | mg/L | 0.091 | 0.303 | 07-18-96 | SM 18th 4500 N org B |
| $BOD_5$ | 7.13 | mg/L | --- | --- | 07-23-96 | SM 18th Ed. 5210 |
| Phosphorus | 0.153 | mg/L | 0.013 | 0.043 | 07-18-96 | SM 18th Ed4500-PE(B-4) |
| Chlorophyll a | 84.3 | mg/m3 | --- | --- | 08-13-96 | APHA SM 10200H.2 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Chlorophyll a analysis performed by Mid State Associates, Inc.

David Edwards 8/22/96
Approved By Date
DAVID O. EDWARDS

GShalabi 8/22/96
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: ~~D.~~ O. Edwards
M. W. Maxwell
D. O. Thurow

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2160
PROJECT: Lake Wisconsin/D.O. Study - BOD
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1271
REPORT DATE: 5 August 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wis. Comp. LAB ID #: L6576-1 DATE COLLECTED: 07-18-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| $BOD_5$ | 7.13 | mg/L | --- | --- | 07-23-96 | SM 18th Ed. 5210 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Dave Edwards 8/5/96
Approved By Date
DAVID O. EDWARDS

Dave Edwards 8/5/96
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
M. W. Maxwell

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2173
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1310
REPORT DATE: 20 August 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6607-1 DATE COLLECTED: 07-29-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | <0.047 | mg/L | 0.047 | 0.157 | 08-01-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | <0.003 | mg/L | 0.003 | 0.010 | 07-30-96 | EPA 300.0 |
| NITRITE, NITROGEN | <0.006 | mg/L | 0.006 | 0.020 | 07-30-96 | EPA 300.0 |
| TKN | 1.22 | mg/L | 0.091 | 0.303 | 08-01-96 | SM 18th 4500 N org B |
| $BOD_5$ | 5.24 | mg/L | --- | --- | 08-05-96 | SM 18th Ed. 5210 |
| Phosphorus | 0.076 | mg/L | 0.013 | 0.043 | 08-01-96 | SM 18th Ed4500-PE(B-4) |
| Chlorophyll a | 53.0 | mg/m3 | --- | --- | 08-13-96 | APHA SM 10200H.2 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Chlorophyll a analysis performed by Mid State Associates, Inc.

Approved By 8/21/96 Date
DAVID O. EDWARDS

Approved By 8/21/96 Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
M. W. Maxwell
D. O. Thurow

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2207
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1354
REPORT DATE: 16 September 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6658-1 DATE COLLECTED: 08-15-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | 0.197 | mg/L | 0.047 | 0.157 | 08-22-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | <0.003 | mg/L | 0.003 | 0.010 | 08-15-96 | US EPA 300.0 |
| NITRITE, NITROGEN | <0.006 | mg/L | 0.006 | 0.020 | 08-15-96 | US EPA 300.0 |
| TKN | 0.435 | mg/L | 0.091 | 0.303 | 08-15-96 | SM 18th 4500 N org B |
| $BOD_5$ | 3.81 | mg/L | --- | --- | 08-20-96 | SM 18th Ed. 5210 |
| Phosphorus, Total | 0.066 | mg/L | 0.013 | 0.043 | 08-22-96 | SM 18th Ed4500-PE(B-4) |
| Chlorophyll a | 37.1 | mg/m3 | --- | --- | 09-06-96 | APHA SM 10200H.2 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Chlorophyll a analysis performed by Mid State Associates, Inc.

Approved By
DAVID O. EDWARDS
Date 9/17/96

Approved By
GEORGE K. SHALABI
Date 9/18/96

DISTRIBUTION: D. O. Edwards
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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2223
PROJECT: Lake Wisconsin Comp. - D.O. Study
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1355
REPORT DATE: 16 September 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp. LAB ID #: L6692-1 DATE COLLECTED: 08-29-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| AMMONIA, NITROGEN | 0.058 | mg/L | 0.047 | 0.157 | 09-05-96 | SM 18th Ed 4500 $NH_3$BC |
| NITRATE, NITROGEN | <0.003 | mg/L | 0.003 | 0.010 | 08-29-96 | US EPA 300.0 |
| NITRITE, NITROGEN | <0.006 | mg/L | 0.006 | 0.020 | 08-29-96 | US EPA 300.0 |
| TKN | 0.672 | mg/L | 0.091 | 0.303 | 08-29-96 | SM 18th 4500 N org B |
| $BOD_5$ | 3.49 | mg/L | --- | --- | 09-03-96 | SM 18th Ed. 5210 |
| Phosphorus, Total | 0.043 | mg/L | 0.013 | 0.043 | 09-05-96 | SM 18th Ed4500-PE(B-4) |
| Chlorophyll a | 39.9 | mg/m3 | --- | --- | 09-06-96 | APHA SM 10200H.2 |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Chlorophyll a analysis performed by Mid State Associates, Inc.

Approved By 9/17/96 Date
DAVID O. EDWARDS

Approved By 9/18/96 Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
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D. O. Thurow

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10/24/96

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2307
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1428
REPORT DATE: 24 October 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp LAB ID #: L6751-1 DATE COLLECTED: 09-18-9

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| NITRATE + NITRITE, as N | <0.003 | mg/L | * | * | 09-19-96 | EPA 300.0 |
| Phosphorus, Total | 0.109 | mg/L | 0.013 | 0.043 | 09-19-96 | SM 18th 4500-PE(B-4) |
| TKN | 1.05 | mg/L | 0.091 | 0.303 | 09-19-96 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.047 | mg/L | 0.047 | 0.157 | 09-19-96 | SM 18th 4500 NH3 BC |
| BOD | 2.91 | mg/L | --- | --- | 09-23-96 | SM 18th Ed. 5210 |
| Chlorophyll a | 42.4 | mg/m3 | --- | --- | 10-11-96 | 10200H.2APHA |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.003 mg/L | 0.010 mg/L |
| | Nitrite | 0.006 mg/L | 0.020 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Comment: Chlorophyll a analyzed by Commonwealth Technology, Inc.

Approved By
DAVID O. EDWARDS
Date 10/28/96

Approved By
GEORGE K. SHALABI
Date 10/28/96

DISTRIBUTION: D. O. Edwards
~~M.~~ W. Maxwell
D. O. Thurow

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11/27/96

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2346
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1481
REPORT DATE: 27 November 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp LAB ID #: L6838-1 DATE COLLECTED: 10-21-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.008 | mg/L | * | * | 10-21-96 | EPA 300.0 |
| Phosphorus, Total | 0.043 | mg/L | 0.013 | 0.043 | 10-22-96 | SM 18th 4500-PE(B-4) |
| TKN | 1.20 | mg/L | 0.091 | 0.303 | 10-24-96 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.047 | mg/L | 0.047 | 0.157 | 10-24-96 | SM 18th 4500 NH3 BC |
| BOD | 3.64 | mg/L | --- | --- | 10-28-96 | SM 18th Ed. 5210 |
| Chlorophyll a | 71.2 | mg/m3 | --- | --- | 11-14-96 | 10200H.2APHA |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Comment: Chlorophyll a analyzed by Commonwealth Technology, Inc.

11/27/96
Approved By Date
DAVID O. EDWARDS

11/27/96
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
~~M.~~ W. Maxwell
D. O. Thurow

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CED 12/4/96

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2415
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1491
REPORT DATE: 3 December 1996
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin Comp LAB ID #: L6926-1 DATE COLLECTED: 11-21-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.60 | mg/L | * | * | 11-21-96 | EPA 300.0 |
| Phosphorus, Total | 0.079 | mg/L | 0.013 | 0.043 | 11-25-96 | SM 18th 4500-PE(B-4) |
| TKN | 0.595 | mg/L | 0.058 | 0.193 | 11-27-96 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.112 | mg/L | 0.077 | 0.257 | 11-27-96 | SM 18th 4500 NH3 BC |
| BOD | 2.46 | mg/L | --- | --- | 11-26-96 | SM 18th Ed. 5210 |
| Chlorophyll a | 9.14 | mg/m3 | --- | --- | 11-25-96 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

David O. Edwards 12/4/96
Approved By Date
DAVID O. EDWARDS

G Shalabi 12/5/96
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
M. W. Maxwell
D. O. Thurow

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2441
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1537
REPORT DATE: 7 January 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin DO  LAB ID #: L6964-1  DATE COLLECTED: 12-09-96

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.75 | mg/L | * | * | 12-09-96 | EPA 300.0 |
| Phosphorus, Total | 0.047 | mg/L | 0.013 | 0.043 | 12-12-96 | SM 18th 4500-PE(B-4) |
| TKN | 0.601 | mg/L | 0.058 | 0.193 | 12-12-96 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.077 | mg/L | 0.077 | 0.257 | 12-12-96 | SM 18th 4500 NH3 BC |
| BOD | 1.50 | mg/L | --- | --- | 12-16-96 | SM 18th Ed. 5210 |
| Chlorophyll a | 7.86 | mg/m3 | --- | --- | 12-09-96 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By: DAVID O. EDWARDS  Date: 1/7/97

Approved By: GEORGE K. SHALABI  Date: 1/7/97

DISTRIBUTION: D. O. Edwards
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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2542
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1579
REPORT DATE: 30 January 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin DO Site 2 LAB ID #: L7054-1 DATE COLLECTED: 01-22-97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 1.1 | mg/L | * | * | 01-22-97 | EPA 300.0 |
| Phosphorus, Total | 0.72 | mg/L | 0.018 | 0.060 | 01-23-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.954 | mg/L | 0.058 | 0.193 | 01-23-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.217 | mg/L | 0.077 | 0.257 | 01-23-97 | SM 18th 4500 NH3 BC |
| BOD | <2.0 | mg/L | --- | --- | 01-27-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 1.75 | mg/m3 | --- | --- | 01-22-97 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By: DAVID O. EDWARDS — Date: 2/3/97

Approved By: GEORGE K. SHALABI — Date: 2/3/97

DISTRIBUTION: D. O. Edwards
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LABORATORY REPORT

CHAIN OF CUSTODY #: 2570
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1606
REPORT DATE: 25 February 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7108-1 DATE COLLECTED: 02-17-97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.999 | mg/L | * | * | 02-18-97 | EPA 300.0 |
| Phosphorus, Total | 0.079 | mg/L | 0.018 | 0.060 | 02-20-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.186 | mg/L | 0.058 | 0.193 | 02-20-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.137 | mg/L | 0.077 | 0.257 | 02-20-97 | SM 18th 4500 NH3 BC |
| BOD | 2.20 | mg/L | --- | --- | 02-24-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 1.70 | mg/m3 | --- | --- | 02-17-97 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By DAVID O. EDWARDS — Date 2/25/97

Approved By GEORGE K. SHALABI — Date 2/25/97

DISTRIBUTION: D. O. Edwards
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LABORATORY REPORT

CHAIN OF CUSTODY #: 2668
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1640
REPORT DATE: 27 March 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7182-1 DATE COLLECTED: 03/19/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.997 | mg/L | * | * | 03-19-97 | EPA 300.0 |
| Phosphorus, Total | 0.105 | mg/L | 0.018 | 0.060 | 03-20-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.806 | mg/L | 0.058 | 0.193 | 03-20-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.234 | mg/L | 0.077 | 0.257 | 03-20-97 | SM 18th 4500 NH3 BC |
| BOD | 3.39 | mg/L | --- | --- | 03-24-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 11.0 | mg/m3 | --- | --- | 03-20-97 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By: DAVID O. EDWARDS — Date: 3/27/97

Approved By: GEORGE K. SHALABI — Date: 3/27/97

DISTRIBUTION: D. O. Edwards
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LABORATORY REPORT

CHAIN OF CUSTODY #: 2737
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1687
REPORT DATE: 30 April 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7279-1 DATE COLLECTED: 04/23/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.74 | mg/L | * | * | 04-23-97 | EPA 300.0 |
| Phosphorus, Total | 0.070 | mg/L | 0.018 | 0.060 | 04-28-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.989 | mg/L | 0.058 | 0.193 | 04-24-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.206 | mg/L | 0.077 | 0.257 | 04-24-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 3.36 | mg/L | --- | --- | 04-29-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 43.0 | mg/m3 | --- | --- | 04-23-97 | SM 18th Ed.10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By DAVID O. EDWARDS — Date 5/1/97

Approved By GEORGE K. SHALABI — Date 5/1/97

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2776
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1712
REPORT DATE: 20 May 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7309-1 DATE COLLECTED: 05/07/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.54 | mg/L | * | * | 05-08-97 | EPA 300.0 |
| Phosphorus, Total | 0.150 | mg/L | 0.018 | 0.060 | 05-08-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.879 | mg/L | 0.058 | 0.193 | 05-08-97 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.077 | mg/L | 0.077 | 0.257 | 05-08-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 3.5 | mg/L | --- | --- | 05-12-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 51.7 | mg/m3 | --- | --- | 05-07-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By DAVID O. EDWARDS — Date 5/14/97

Approved By GEORGE K. SHALABI — Date 5/14/97

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# LABORATORY REPORT

CHAIN OF CUSTODY #: 2829
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1774
REPORT DATE: 24 June 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7364-1 DATE COLLECTED: 06/05/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.008 | mg/L | * | * | 06-05-97 | EPA 300.0 |
| Phosphorus, Total | 0.057 J | mg/L | 0.018 | 0.060 | 06-12-97 | SM 18th 4500-PE(B-4) |
| TKN | 1.48 | mg/L | 0.058 | 0.193 | 06-12-97 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.077 | mg/L | 0.077 | 0.257 | 06-12-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 2.13 | mg/L | --- | --- | 06-10-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 14.2 | mg/m3 | --- | --- | 06-05-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.008 mg/L | 0.027 mg/L |
| | Nitrite | 0.011 mg/L | 0.037 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

COMMENT: The LOD and LOQ for nitrate are based on the method detection limit from October 23, 1996.

Approved By DAVID O. EDWARDS Date 6/25/97

Approved By GEORGE K. SHALABI Date 6/25/97

DISTRIBUTION: D. O. Edwards, J. P. Hansen, ~~M.~~ W. Maxwell, D. O. Thurow

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2871
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1793
REPORT DATE: 2 July 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7404-1 DATE COLLECTED: 06/19/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | 0.43 | mg/L | * | * | 06-19-97 | EPA 300.0 |
| Phosphorus, Total | 0.040 J | mg/L | 0.018 | 0.060 | 06-25-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.853 | mg/L | 0.058 | 0.193 | 06-26-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.097 J | mg/L | 0.077 | 0.257 | 06-26-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 2.24 | mg/L | --- | --- | 06-24-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 11.7 | mg/m3 | --- | --- | 06-19-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.007 mg/L | 0.023 mg/L |
| | Nitrite | 0.046 mg/L | 0.153 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By DAVID O. EDWARDS Date 7/7/97

Approved By GEORGE K. SHALABI Date 7/7/97

DISTRIBUTION: D. O. Edwards, J. P. Hansen, ~~M.~~ W. Maxwell, D. O. Thurow

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2920
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1836
REPORT DATE: 10 July 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7457-1 DATE COLLECTED: 07/10/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.007 | mg/L | * | * | 07-10-97 | EPA 300.0 |
| Phosphorus, Total | 0.114 | mg/L | 0.018 | 0.060 | 07-17-97 | SM 18th 4500-PE(B-4) |
| TKN | 1.53 | mg/L | 0.058 | 0.193 | 07-17-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.097 J | mg/L | 0.077 | 0.257 | 07-17-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 7.95 | mg/L | --- | --- | 07-15-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 103 | mg/m3 | --- | --- | 07-10-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.002 mg/L | 0.007 mg/L |
| | Nitrite | 0.007 mg/L | 0.023 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By DAVID O. EDWARDS — Date 7/24/97

Approved By GEORGE K. SHALABI — Date 7/24/97

DISTRIBUTION: D. O. Edwards, J. P. Hansen, ~~M.~~ W. Maxwell, D. O. Thurow

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LABORATORY REPORT

CHAIN OF CUSTODY #: 2944
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1852
REPORT DATE: 5 August 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7486-1 DATE COLLECTED: 07-24-97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.007 | mg/L | * | * | 07-24-97 | EPA 300.0 |
| Phosphorus, Total | 0.069 J | mg/L | 0.018 | 0.060 | 07-30-97 | SM 18th 4500-PE(B-4) |
| TKN | 1.11 | mg/L | 0.058 | 0.193 | 07-30-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.105 J | mg/L | 0.077 | 0.257 | 07-30-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 2.00 | mg/L | --- | --- | 07-29-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 26.0 | mg/m3 | --- | --- | 07-24-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.002 mg/L | 0.007 mg/L |
| | Nitrite | 0.007 mg/L | 0.023 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

CES 8/5/97

Approved By DAVID O. EDWARDS Date 8/5/97

Approved By GEORGE K. SHALABI Date 8/5/97

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LABORATORY REPORT

OED
9/2/97

CHAIN OF CUSTODY #: 2986
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1912
REPORT DATE: 2 September 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7542-1 DATE COLLECTED: 08-14-97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.007 | mg/L | * | * | 08-14-97 | EPA 300.0 |
| Phosphorus, Total | 0.112 | mg/L | 0.018 | 0.060 | 08-21-97 | SM 18th 4500-PE(B-4) |
| TKN | 1.16 | mg/L | 0.058 | 0.193 | 08-21-97 | SM 18th 4500NorgBNH3C |
| Ammonia | 0.161 J | mg/L | 0.077 | 0.257 | 08-21-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 1.60 | mg/L | --- | --- | 08-19-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 24.0 | mg/m3 | --- | --- | 08-14-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.002 mg/L | 0.007 mg/L |
| | Nitrite | 0.007 mg/L | 0.023 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

Approved By 9/2/97
DAVID O. EDWARDS Date

Approved By 9/2/97
GEORGE K. SHALABI Date

DISTRIBUTION: D. O. Edwards M. W. Maxwell
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LABORATORY REPORT

CEB
9/4/97

CHAIN OF CUSTODY #: 2998
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1920
REPORT DATE: 3 September 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7558-1 DATE COLLECTED: 08/21/97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.007 | mg/L | * | * | 08-21-97 | EPA 300.0 |
| Phosphorus, Total | 0.093 | mg/L | 0.018 | 0.060 | 08-26-97 | SM 18th 4500-PE(B-4) |
| TKN | 0.649 | mg/L | 0.058 | 0.193 | 08-27-97 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.077 | mg/L | 0.077 | 0.257 | 08-27-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 2.22 | mg/L | --- | --- | 08-21-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 32.6 | mg/m3 | --- | --- | 08-21-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.002 mg/L | 0.007 mg/L |
| | Nitrite | 0.007 mg/L | 0.023 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

David O. Edwards 9/4/97
Approved By Date
DAVID O. EDWARDS

R K Shalabi 9/4/97
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards M. W. Maxwell
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M. Maxwell

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LABORATORY REPORT

CED
9/29/97

CHAIN OF CUSTODY #: 3114
PROJECT: Lake Wisconsin Comp.
MATRIX: Surface Water
SAMPLE INTEGRITY: MEETS CRITERIA

LAB REPORT NUMBER: 1971
REPORT DATE: 29 September 1997
PAGE 1 OF 1

SAMPLE DESCRIPTION: Lake Wisconsin LAB ID #: L7632-1 DATE COLLECTED: 09-17-97

| PARAMETER | RESULT | UNIT | LOD | LOQ | ANALYSIS DATE | METHOD |
|---|---|---|---|---|---|---|
| Nitrate + Nitrite, as N | <0.007 | mg/L | * | * | 09-18-97 | EPA 300.0 |
| Phosphorus, Total | 0.075 | mg/L | 0.018 | 0.060 | 09-17-97 | SM 18th 4500-PE(B-4) |
| TKN | 1.01 | mg/L | 0.058 | 0.193 | 09-18-97 | SM 18th 4500NorgBNH3C |
| Ammonia | <0.077 | mg/L | 0.077 | 0.257 | 09-18-97 | SM 18th 4500 NH3 BC |
| $BOD_5$ | 3.36 | mg/L | --- | --- | 09-22-97 | SM 18th Ed. 5210 |
| Chlorophyll a | 36.6 | mg/m3 | --- | --- | 09-17-97 | SM 18th Ed. 10200H |

| | | LOD | LOQ |
|---|---|---|---|
| * | Nitrate | 0.002 mg/L | 0.007 mg/L |
| | Nitrite | 0.007 mg/L | 0.023 mg/L |

J - Analytical result is between limit of detection and limit of quantitation.
LOD - Limit of Detection
LOQ - Limit of Quantitation

David Edwards 9/29/97
Approved By Date
DAVID O. EDWARDS

G K Shalabi 9/29/97
Approved By Date
GEORGE K. SHALABI

DISTRIBUTION: D. O. Edwards
J. P. Hansen
M. W. Maxwell
D. O. Thurow

WDNR LAB & SAFE DRINKING WATER CERTIFICATION #157005530
USACE-MRD LAB. VALIDATED



OLIN CORPORATION
1 BADGER ROAD, BARABOO, WISCONSIN 53913-5000 • PHONE (608) 643-3361 • FAX (608) 643-2674

# APPENDIX F
# Equipment Lists and Settings

## 1. Profile Sampling

- Dissolved Oxygen Meter - Yellow Springs Incorporated (YSI), Yellow Springs, Ohio, Model 51B
- Dissolved Oxygen Probe with 50-foot cable - Yellow Springs Incorporated (YSI), Yellow Springs, Ohio, Model 5739
- pH Meter - Omega Engineering, Stamford, Connecticut, Model PHH 63

Other Items Used:

YSI Model 5775 Oxygen Probe Service Kit
7.0 and 10.0 pH buffers in field bottles
Aeration wand and supply of filtered air
Sample bottles and required preservatives
Small carboy of distilled water for aeration water
Princo Nova Barometer
Small electrical tie straps
3 four-ounce fishing weights
48 quart Coleman cooler and ice
Sampling basket with attached one-liter bottle and lab stopper
14-foot Northwood V-bottom boat and trailer with a 15 HP Mercury outboard
16-lb. anchor on a 50-foot rope
Personal floatation devices (wearable life jackets)
Clear garbage bags

## 2. Continuous Monitoring

- Dissolved oxygen probe - Yellow Springs Incorporated(YSI) model 600 Multi-Parameter Water Quality Monitor equipped with a dissolved oxygen electrode and a temperature sensor equipped with a 50 ft cable.
- Data Collection unit - ISCO Model 4210 Flow Meter
- YSI/Isco meter settings

| | |
|---|---|
| Level units of measure: | IN |
| Flow rate units of measure: | not measured |
| Rainfall units of measure: | not measured |
| pH units of measure: | not measured |
| Dissolved oxygen units of measure: | not measured |
| Temperature units of measure: | not measured |
| YSI 600 connected: | YES |
| YSI pH units of measure: | not measured |
| YSI D.O. units of measure: | Mg/L |

| | |
|---|---|
| YSI conductivity parameter: | not measured |
| YSI temperature units: | °C |
| Sampler pacing: | disable |
| Sampler enable mode: | enable |
| Plotter speed: | 2"/hr |
| Input for plotter A: | YSI D.O. |
| Plotter line A full scale: | 10 |
| Input for plotter B: | Level |
| Plotter line B full scale: | 472.4 IN |
| Input for plotter C: | YSI TEMP. |
| Plotter Line C bottom scale: | 10.00°C |
| Plotter Line C full scale: | 40.00°C |
| Report Generator A: | ON |
| Report A Duration: | 2 hr |
| Report Generator B: | OFF |

# APPENDIX G
# Dissolved Oxygen Study of Lake Wisconsin - 1994 & 1995

# DISSOLVED OXYGEN STUDY

*of*

# *Lake Wisconsin*

Environmental Laboratory

Badger Army Ammunition Plant

January 1996

TABLE OF CONTENTS

# *A STUDY OF DISSOLVED OXYGEN LEVELS IN LAKE WISCONSIN 1994 & 1995*

## INTRODUCTION

A study conducted by Mead & Hunt, Inc. (M&H) in 1992 and published in April of 1994, titled *"Prairie du Sac Hydroelectric Project"* , indicated that at several locations the Dissolved Oxygen levels in Lake Wisconsin have degraded to lower than 5 mg/L.

Badger Army Ammunition Plant (BAAP) is preparing to apply for a revised WPDES permit which would discharge to Lake Wisconsin. Based on the M&H study, the Wisconsin Department of Natural Resources has delayed any decision on a permit until additional data is provided to them.

Badger AAP has conducted these studies to provide additional information on Dissolved Oxygen (D. O.) levels in Lake Wisconsin. To have a more complete understanding of the lake, readings were taken from under the ice (see Appendix A) in March 1994 at 1° C. The D. O. readings were in the 10-11 mg/L range in cold water except for a reading taken at 1 or 2 inches from the bottom sludge.

More extensive investigations of 20 discrete sites were conducted in August of 1994 and 1995 when water temperatures are likely to be the greatest. D. O. readings, temperature, and surface pH were recorded at each site.

During the 1995 study, a representative from M&H simultaneously conducted a parallel study from the same boat. The M&H data are not complete due to a malfunction of their D. O. meter. Their representative was present for the entire study. Both sets of data are presented in this report, along with the 1994 BAAP data.

The data are tabulated in Table 1, starting on page 2. Site description and conditions are listed in Table 2, starting on page 19.

# DESCRIPTION OF PROJECT

Badger Army Ammunition Plant is submitting a WPDES wastewater permit for discharging all plant wastewaters into Lake Wisconsin. Regulations do not allow discharges to reduce receiving water levels below 5 mg/L. A 1992 Wisconsin Power and Light (WP&L) study, the Prairie du Sac Hydroelectric Project F. E. R. C. No. 11162-000, has reported Lake Wisconsin Dissolved Oxygen (D. O.) levels below 5.0 mg/L. The purpose of this paper is to report the D. O. levels in the same locations cited in the WP&L Report and at additional channel locations during late August of 1994 and 1995 when the D. O. levels should be at their lowest. An earlier study was done by Badger on 7 March 1994 through the ice (see Appendix A).

The studies of dissolved oxygen, pH and temperature were performed in August 1994 and 1995. The measurements were taken at 20 sites (see maps) from a boat equipped with a bottom-locating sonar *(Hummingbird Model 101 with in-hull mounted transducers)* and electric trolling motor. The 1995 readings include three testing sites below the dam *(see map, page 31)*. The area in which the measurements were to be taken was surveyed using the sonar in order to locate the deepest spot in a given area and to provide an indication of the bottom contour. This information was used to select the particular location for the measurements. The electric trolling motor was used to keep the boat in the proper location while taking measurements. To obtain the best depth vs. dissolved oxygen data, it was important to make sure the cord to the D. O. probe remained vertical. During measurements taken in the deep channel locations, the boat was allowed to drift downstream at the speed of the current in order to keep the probe cord vertical. This resulted in the readings being taken over an approximate 100 foot stretch of river.

The boat was launched at Moon Valley Public Boat Launch and traveled upstream to begin the study. When a location was selected, the surface pH was first measured. The D. O. probe was then lowered into the water in increments.

The data are reported in tables by site number as found on the accompanying maps. The map titled *"Local Features"* shows the entire Lake Wisconsin area and shows the overall location of each of the sites. The following enlarged area maps illustrate the exact location of the measurements at each of the north river area, central area, south area and dam areas of the lake.

An Omega Model PH-63 portable pH meter (see Appendix B) was used to directly measure the pH of the surface of the water. The meter was calibrated at pH 7 - 10 in the lab prior to leaving. The meter was recalibrated in the field after every five sites.

A YSI Model 51B Dissolved Oxygen Meter with a 50 foot cable attachment to the measurement probe was used to measure dissolved oxygen and temperature at the various depths (see Appendix C). The meter was calibrated for dissolved oxygen in the lab the morning of the sampling.

TABLE 1: DATA FROM LAKE WISCONSIN STUDIES

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 1 | INTERSTATE BRIDGE | SURFACE | 7.5 | 7.3 | 7.1 | 20.0 | 24.5 | 24.9 | 7.8 | 7.1 |
| | | 1 | 7.7 | | | 20.0 | | | | |
| | | 2 | | 7.2 | 7.1 | | 25.0 | 25.0 | | |
| | | 3 | 7.5 | | | 20.0 | | | | |
| | | 4 | | 7.3 | 7.0 | | 25.0 | 25.0 | | |
| | | 5 | 7.8 | | | 20.0 | | | | |
| | | 6 | | 7.2 | 6.9 | | 25.0 | 25.0 | | |
| | | 7 | 7.7 | | | 20.0 | | | | |
| | | 8 | 7.7 | 7.2 | 6.9 | 20.0 | 25.0 | 25.0 | | |
| | | 10 | 7.7 | 7.1 | 6.7 | 20.0 | 25.0 | 25.0 | | |
| 2 | TIPPERARY POINT | SURFACE | 7.8 | 7.1 | 6.9 | 20.0 | 25.0 | 25.0 | 7.8 | 7.1 |
| | | 2 | 7.6 | 7.1 | 7.0 | 20.0 | 25.0 | 25.0 | | |
| | | 3 | 7.5 | | | 20.0 | | | | |
| | | 4 | | 7.3 | 6.8 | | 25.0 | 25.0 | | |
| | | 5 | 7.6 | | | 20.0 | | | | |
| | | 6 | | 7.4 | 6.6 | | 25.0 | 25.0 | | |
| | | 7 | 7.6 | | | 20.0 | | | | |
| | | 8 | 7.6 | 7.3 | 6.6 | 20.0 | 25.0 | 25.0 | | |
| | | 10 | 7.5 | 7.2 | 6.4 | 20.0 | 25.0 | 25.0 | | |
| | | 11 | 7.5 | | | 20.0 | | | | |
| | | 12 | | 7.1 | 6.4 | | 25.0 | 25.0 | | |
| | | 13 | 7.4 | | | 20.0 | | | | |
| | | 14 | | 6.9 | 5.8 | | 25.0 | 25.0 | | |
| | | 15 | 5.8 | 6.7 | | 20.0 | 25.0 | | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 3 | STONERS BAY | SURFACE | 9.0 | 7.2 | 6.8 | 20.0 | 25.0 | 25.0 | 8.2 | 7.0 |
| | | 2 | 8.7 | 7.1 | 6.9 | 21.0 | 25.0 | 25.0 | | |
| | | 3 | 6.4 | | | 19.0 | | | | |
| | | 4 | 3.2 | 5.5 | 5.4 | 19.0 | 24.5 | 24.5 | | |
| | | 5 | | 2.2 | | | 24.5 | | | |
| 4 | WHALENS BAY | SURFACE | 8.3 | 7.4 | 7.0 | 20.0 | 25.2 | 26.5 | 8.2 | 7.8 |
| | | 2 | 8.0 | 6.9 | 6.8 | 21.0 | 26.0 | 26.0 | | |
| | | 3 | 7.5 | | | 20.0 | | | | |
| | | 4 | | 3.8 | 3.8 | | 24.1 | 24.0 | | |
| | | 5 | 5.8 | | | 20.0 | | | | |
| | | 6 | | 2.3 | 2.4 | | 23.5 | 23.5 | | |
| | | 7 | 2.2 | | | 18.0 | | | | |
| | | 8 | 1.8 | 1.6 | 2.1 | 18.0 | 23.0 | 23.5 | | |
| | | 9 | 1.7 | | | 18.0 | | | | |
| 5 | STICKY BAY | SURFACE | 8.3 | 5.4 | 5.6 | 21.0 | 24.5 | 24.8 | 8.7 | 6.8 |
| | | 2 | 8.2 | 5.3 | 5.5 | 21.0 | 24.5 | 24.8 | | |
| | | 3 | 8.2 | | | 21.0 | | | | |
| | | 4 | | 4.8 | 5.3 | | 24.3 | 24.8 | | |
| | | 5 | 7.5 | | | 21.0 | | | | |
| | | 6 | | 4.4 | 4.9 | | 24.1 | 24.5 | | |
| | | 7 | 6.5 | | | 21.0 | | | | |
| | | 8 | | 0.8 | 3.2 | | 24.1 | 24.5 | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 6 | PINE BLUFF | SURFACE | 6.4 | 7.5 | 7.6 | 22.0 | 25.8 | 25.9 | 8.2 | 7.2 |
| | | 2 | 6.4 | 7.5 | 7.5 | 22.0 | 25.8 | 25.8 | | |
| | | 3 | 6.3 | | | 22.0 | | | | |
| | | 4 | | 7.4 | 7.5 | | 25.8 | 25.8 | | |
| | | 5 | 6.3 | | | 22.0 | | | | |
| | | 6 | | 7.2 | 7.3 | | 25.7 | 25.8 | | |
| | | 7 | 6.2 | | | 22.0 | | | | |
| | | 8 | 6.2 | 6.3 | 7.1 | 22.0 | 25.5 | 25.8 | | |
| | | 10 | 3.0 | 4.8 | 5.6 | 22.0 | 25.0 | 25.0 | | |
| | | 12 | | 4.6 | 5.1 | | 25.0 | 25.0 | | |
| | | 13 | | | 3.2 | | | 24.9 | | |
| 7 | OKEE BAY | SURFACE | 7.9 | 12.0 | 11.8 | 20.0 | 25.2 | 25.8 | 8.4 | 7.7 |
| | | 2 | 7.7 | 11.4 | 11.2 | 21.0 | 25.1 | 25.5 | | |
| | | 3 | 7.8 | | | 21.0 | | | | |
| | | 4 | | 10.0 | 10.4 | | 25.0 | 25.3 | | |
| | | 5 | 7.9 | | | 21.0 | | | | |
| | | 6 | | 11.0 | 8.7 | | 25.0 | 25.2 | | |
| | | 7 | 7.5 | | | 21.0 | | | | |
| | | 8 | 7.4 | 8.2 | 5.8 | 20.0 | 24.5 | 24.5 | | |
| | | 10 | 7.3 | 2.9 | 5.0 | 20.0 | 23.0 | 23.9 | | |
| | | 11 | 7.3 | | | 20.0 | | | | |
| | | 12 | | 1.8 | 3.5 | | 22.5 | 22.9 | | |
| | | 13 | 6.8 | | | 20.0 | | | | |
| | | 14 | | 1.2 | 2.4 | | 22.5 | 22.5 | | |

TABLE 1 (cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 8 | MERRIMAC FERRY | SURFACE | 6.3 | 8.4 | 8.4 | 22.0 | 26.0 | 26.1 | 8.1 | 7.5 |
| | | 2 | 6.3 | 8.4 | 8.4 | 22.0 | 26.0 | 26.1 | | |
| | | 3 | 6.3 | | | 22.0 | | | | |
| | | 4 | | 8.3 | 8.2 | | 26.0 | 26.1 | | |
| | | 5 | 6.2 | | | 22.0 | | | | |
| | | 6 | | 8.1 | 8.2 | | 25.8 | 26.1 | | |
| | | 7 | 6.2 | | | 22.0 | | | | |
| | | 8 | 6.0 | 6.8 | 7.6 | 22.0 | 25.5 | 25.8 | | |
| | | 10 | 6.0 | 5.6 | 7.1 | 22.0 | 25.1 | 25.0 | | |
| | | 11 | 6.0 | | | 22.0 | | | | |
| | | 12 | | 5.5 | 6.1 | | 25.0 | 24.9 | | |
| | | 13 | 6.0 | | | 22.0 | | | | |
| | | 14 | | 5.2 | 5.5 | | 24.9 | 24.9 | | |
| | | 15 | 6.0 | | | 22.0 | | | | |
| | | 16 | 5.0 | 5.4 | 5.4 | 22.0 | 24.8 | 24.9 | | |
| | | 18 | | 4.8 | 5.1 | | 24.8 | 24.9 | | |
| | | 20 | | 4.7 | 5.0 | | 24.8 | 24.9 | | |
| | | 21 | | 4.2 | 4.4 | | 24.8 | 24.9 | | |
| 9 | SUNSET BAY | SURFACE | 8.2 | 9.0 | 8.3 | 21.0 | 25.9 | 26.0 | 8.7 | 7.6 |
| | | 2 | 8.0 | 8.4 | 8.3 | 22.0 | 25.8 | 26.0 | | |
| | | 3 | 7.8 | | | 22.0 | | | | |
| | | 4 | | 8.0 | 8.0 | | 25.5 | 25.8 | | |
| | | 5 | 6.6 | | | 22.0 | | | | |
| | | 6 | | 7.1 | 7.4 | | 25.1 | 25.2 | | |
| | | 8 | | 6.4 | 6.0 | | 25.0 | 24.9 | | |
| | | 9 | | 0.5 | 4.5 | | 24.4 | 24.5 | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 10 | CHANNEL ACROSS FROM SUNSET BAY | SURFACE | 6.5 | 9.0 | 8.3 | 22.0 | 26.0 | 26.0 | 8.3 | 7.7 |
| | | 2 | 6.5 | 8.9 | 8.3 | 22.0 | 26.0 | 26.0 | | |
| | | 3 | 6.4 | | | 22.0 | | | | |
| | | 4 | | 8.7 | 8.4 | | 26.0 | 26.0 | | |
| | | 5 | 6.4 | | | 22.0 | | | | |
| | | 6 | | 8.5 | 8.3 | | 25.2 | 25.9 | | |
| | | 7 | 6.4 | | | 22.0 | | | | |
| | | 8 | 6.3 | 5.7 | 6.5 | 22.0 | 25.0 | 25.1 | | |
| | | 10 | 6.4 | 5.4 | 6.0 | 22.0 | 25.0 | 25.0 | | |
| | | 11 | 6.4 | | | 22.0 | | | | |
| | | 12 | | 5.2 | 5.6 | | 25.0 | 25.0 | | |
| | | 13 | 6.4 | | | 22.0 | | | | |
| | | 14 | | 5.0 | 5.4 | | 25.0 | 25.0 | | |
| | | 15 | 6.3 | | | 22.0 | | | | |
| | | 16 | 6.1 | 4.9 | 5.2 | 22.0 | 25.0 | 25.0 | | |
| | | 18 | 5.0 | 4.9 | 5.2 | 22.0 | 25.0 | 25.0 | | |
| | | 20 | | 4.9 | 5.1 | | 25.0 | 25.0 | | |
| | | 22 | | 4.4 | 1.8 | | 25.0 | 24.9 | | |
| | | 23 | | 0.7 | | | 25.0 | | 8.4 | 8.0 |
| 11 | MOON VALLEY BAY | SURFACE | 7.5 | 10.2 | 10.3 | 22.0 | 26.5 | 26.5 | | |
| | | 2 | 7.3 | 8.9 | 10.5 | 22.0 | 26.6 | 26.6 | | |
| | | 3 | 7.3 | | | 22.0 | | | | |
| | | 4 | | 8.9 | 10.2 | | 26.7 | 26.6 | | |
| | | 5 | 7.2 | | | 22.0 | | | | |
| | | 6 | | 9.9 | 10.0 | | 26.4 | 26.5 | | |
| | | 7 | 7.1 | | | 22.0 | | | | |
| | | 8 | 7.1 | 9.7 | 9.8 | 22.0 | 26.2 | 26.3 | | |
| | | 10 | 6.0 | 8.8 | 9.4 | 22.0 | 26.2 | 26.2 | | |
| | | 12 | | 2.9 | 6.2 | | 25.1 | 25.9 | | |
| | | 14 | | 1.9 | 3.6 | | 24.8 | 25.0 | | |
| | | 15 | | | 2.5 | | | 24.9 | | |

TABLE 1 *(Cont.)*

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 12 | WEIGAND'S BAY | SURFACE | 7.6 | 9.5 | 8.5 | 22.0 | 26.4 | 26.5 | 8.6 | 7.8 |
| | | 2 | 7.2 | 9.1 | 8.5 | 22.0 | 26.0 | 26.2 | | |
| | | 3 | 7.0 | | | 22.0 | | | | |
| | | 4 | | 7.3 | 8.1 | | 25.8 | 26.0 | | |
| | | 5 | 7.1 | | | 22.0 | | | | |
| | | 6 | | 7.2 | 7.4 | | 25.1 | 25.5 | | |
| | | 7 | 7.1 | | | 22.0 | | | | |
| | | 8 | 7.0 | 6.8 | 7.0 | 22.0 | 25.1 | 25.5 | | |
| | | 10 | 6.8 | 6.6 | 6.8 | 22.0 | 25.1 | 25.4 | | |
| | | 11 | 6.2 | | | 22.0 | | | | |
| | | 12 | | 6.6 | 6.9 | | 25.1 | 25.2 | | |
| | | 13 | 2.0 | | | 21.0 | | | | |
| | | 14 | | 6.3 | 4.4 | | 25.1 | 25.2 | | |
| | | 16 | | 2.7 | 3.1 | | 25.0 | 25.0 | | |
| | | 17 | | | 1.5 | | | 24.9 | | |
| | | 18 | | 0.4 | | | 24.8 | | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 13 | CHANNEL OUT FROM WEIGAND'S BAY | SURFACE | 5.6 | 8.9 | 8.8 | 22.0 | 26.0 | 26.2 | 8.2 | 7.6 |
| | | 2 | 5.6 | 8.8 | 9.1 | 22.0 | 26.0 | 26.1 | | |
| | | 3 | 5.5 | | | 22.0 | | | | |
| | | 4 | | 8.8 | 8.9 | | 26.0 | 26.0 | | |
| | | 5 | 5.4 | | | 22.0 | | | | |
| | | 6 | | 8.6 | 8.8 | | 26.0 | 26.0 | | |
| | | 7 | 5.4 | | | 22.0 | | | | |
| | | 8 | 5.4 | 8.4 | 8.6 | 22.0 | 26.0 | 26.0 | | |
| | | 10 | 5.4 | 8.2 | 8.4 | 22.0 | 25.5 | 26.0 | | |
| | | 11 | 5.4 | | | 22.0 | | | | |
| | | 12 | | 7.2 | 7.6 | | 25.3 | 25.6 | | |
| | | 13 | 5.3 | | | 22.0 | | | | |
| | | 14 | | 5.2 | 6.1 | | 25.0 | 25.0 | | |
| | | 15 | 5.3 | | | 22.0 | | | | |
| | | 16 | 5.2 | 4.9 | 7.2 | 22.0 | 25.0 | 24.9 | | |
| | | 18 | 5.2 | 4.7 | 7.0 | 22.0 | 24.9 | 24.9 | | |
| | | 20 | 5.1 | 4.7 | 6.9 | 22.0 | 24.8 | 24.9 | | |
| | | 21 | 4.7 | | | 22.0 | | | | |
| | | 22 | | 4.7 | 6.4 | | 24.8 | 24.8 | | |
| | | 23 | 2.8 | | | 22.0 | | | | |
| | | 24 | 1.5 | 4.7 | 5.1 | 22.0 | 24.8 | 24.8 | | |
| | | 26 | | 2.0 | 5.0 | | 24.3 | 24.8 | | |
| | | 27 | | 1.0 | 2.0 | | 24.2 | 24.8 | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | UNITS: mg/L | | | degrees Celsius | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 14 | 100 FEET UPSTREAM FROM IRM DISCHARGE | SURFACE | 6.0 | | | 23.0 | | | 8.5 | |
| | | 2 | 5.8 | | | 23.0 | | | | |
| | | 3 | 5.9 | | | 23.0 | | | | |
| | | 5 | 5.9 | | | 23.0 | | | | |
| | | 7 | 5.7 | | | 23.0 | | | | |
| | | 8 | 5.6 | | | 23.0 | | | | |
| | | 10 | 5.6 | | | 23.0 | | | | |
| | | 11 | 5.4 | | | 23.0 | | | | |
| | | 13 | 5.5 | | | 23.0 | | | | |
| | | 15 | 5.5 | | | 23.0 | | | | |
| | | 16 | 5.1 | | | 23.0 | | | | |
| | | 18 | 5.0 | | | 23.0 | | | | |
| | | 20 | 4.8 | | | 23.0 | | | | |
| | | 21 | 4.6 | | | 23.0 | | | | |
| | | 23 | 4.0 | | | 23.0 | | | | |
| | | 25 | 1.7 | | | 23.0 | | | | |

TABLE 1 (Cont'd)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 14A | 150 YARDS UPSTREAM FROM IRM DISCHARGE | SURFACE | | 9.1 | 9.1 | | 26.0 | 26.2 | | 7.6 |
| | | 2 | | 8.8 | 9.2 | | 26.0 | 26.2 | | |
| | | 4 | | 8.6 | 9.0 | | 25.8 | 26.0 | | |
| | | 6 | | 8.4 | 9.0 | | 25.5 | 26.0 | | |
| | | 8 | | 8.2 | 8.5 | | 25.5 | 25.5 | | |
| | | 10 | | 8.1 | 8.5 | | 25.5 | 25.9 | | |
| | | 12 | | 7.8 | 8.4 | | 25.5 | 25.9 | | |
| | | 14 | | 7.6 | 8.3 | | 25.3 | 25.6 | | |
| | | 16 | | 7.4 | 8.0 | | 25.1 | 25.5 | | |
| | | 18 | | 7.1 | 7.8 | | 25.1 | 25.4 | | |
| | | 20 | | 6.9 | 7.5 | | 25.1 | 25.2 | | |
| | | 22 | | 5.8 | 6.4 | | 24.8 | 25.0 | | |
| | | 24 | | 5.5 | 6.4 | | 24.8 | 25.0 | | |
| | | 26 | | 5.5 | 6.3 | | 24.8 | 25.0 | | |
| | | 28 | | 5.5 | 6.2 | | 24.8 | 24.9 | | |
| | | 30 | | 5.4 | 6.2 | | 24.8 | 25.0 | | |
| | | 32 | | 5.4 | 6.2 | | 24.7 | 25.0 | | |
| | | 34 | | 5.4 | 1.6 | | 24.8 | 24.9 | | |
| | | 36 | | 0.2 | 1.0 | | 24.7 | 24.9 | | |
| | | 38 | | | 0.7 | | | 24.9 | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | IRM DISCHARGE SITE | SURFACE | 6.5 | 9.0 | 8.2 | 23.0 | 25.1 | 26.2 | 8.5 | 7.6 |
| | | 2 | 6.4 | 8.9 | 8.3 | 23.0 | 26.0 | 26.2 | | |
| | | 3 | 6.3 | | | 23.0 | | | | |
| | | 4 | | 8.8 | 8.3 | | 26.0 | 26.0 | | |
| | | 5 | 6.3 | | | 23.0 | | | | |
| | | 6 | | 8.6 | 8.0 | | 26.0 | 26.0 | | |
| | | 7 | 6.1 | | | 23.0 | | | | |
| | | 8 | 6.0 | 8.2 | 7.6 | 23.0 | 25.8 | 26.0 | | |
| | | 10 | 6.0 | 7.8 | 7.2 | 23.0 | 25.7 | 26.0 | | |
| | | 11 | 5.8 | | | 23.0 | | | | |
| | | 12 | | 7.4 | 6.7 | | 25.4 | | | |
| | | 13 | 5.8 | | | 23.0 | | | | |
| | | 14 | | 7.2 | 6.4 | | 25.2 | | | |
| | | 15 | 5.6 | | | 23.0 | | | | |
| | | 16 | 5.5 | 7.0 | 6.2 | 23.0 | 25.2 | | | |
| | | 18 | 5.2 | 6.8 | 6.1 | 23.0 | 25.1 | | | |
| | | 20 | 5.2 | 5.8 | 5.5 | 23.0 | 25.0 | | | |
| | | 21 | 5.0 | | | 23.0 | | | | |
| | | 22 | | 5.5 | 5.2 | | 25.0 | | | |
| | | 23 | 5.0 | | | 23.0 | | | | |
| | | 24 | | 5.4 | 4.9 | | 25.0 | | | |
| | | 25 | 5.1 | | | 23.0 | | | | |
| | | 26 | 5.0 | 5.4 | 4.9 | 23.0 | 24.9 | | | |
| | | 28 | 0.3 | 5.4 | 4.8 | 22.0 | 24.9 | | | |
| | | 30 | 0.1 | 5.3 | 4.8 | 22.0 | 24.8 | | | |
| | | 32 | | 5.3 | 4.8 | | 24.8 | | | |
| | | 34 | | 3.4 | 2.2 | | 24.8 | | | |
| | | 35 | | 0.4 | 1.2 | | 24.8 | | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 16 | IN CHANNEL, OUT FROM IRM DISCHARGE SITE | SURFACE | 6.8 | 9.4 | 9.0 | 23.0 | 26.2 | 26.2 | 8.5 | 7.8 |
| | | 2 | 6.7 | 9.2 | 9.1 | 23.0 | 26.2 | | | |
| | | 3 | 6.7 | | | 23.0 | | | | |
| | | 4 | | 9.2 | 9.0 | | 26.1 | | | |
| | | 5 | 6.5 | | | 23.0 | | | | |
| | | 6 | | 9.0 | 8.8 | | 26.0 | | | |
| | | 7 | 6.5 | | | 23.0 | | | | |
| | | 8 | 6.3 | 8.8 | 8.6 | 23.0 | 26.0 | | | |
| | | 10 | 5.9 | 8.5 | 8.4 | 23.0 | 26.0 | | | |
| | | 11 | 6.0 | | | 23.0 | | | | |
| | | 12 | | 8.6 | 8.2 | | 25.9 | | | |
| | | 13 | 5.8 | | | 23.0 | | | | |
| | | 14 | | 5.3 | 6.5 | | 24.9 | | | |
| | | 15 | 5.8 | | | 23.0 | | | | |
| | | 16 | 5.8 | 5.2 | 6.0 | 23.0 | 24.6 | | | |
| | | 18 | 5.7 | 5.1 | 5.2 | 23.0 | 24.5 | | | |
| | | 20 | 5.2 | 5.0 | 5.2 | 23.0 | 24.6 | | | |
| | | 21 | 5.3 | 5.0 | | 23.0 | | | | |
| | | 22 | | 5.0 | 5.1 | | 24.6 | | | |
| | | 23 | 5.3 | | | 23.0 | | | | |
| | | 24 | | 5.0 | 5.0 | | 24.6 | | | |
| | | 25 | 5.3 | | | 23.0 | | | | |
| | | 26 | 4.2 | 4.9 | 5.0 | 22.0 | 24.6 | | | |
| | | 28 | 3.4 | 0.2 | 5.0 | 22.0 | 24.6 | | | |
| | | 29 | 2.0 | | | 22.0 | | | | |
| | | 30 | | | 1.4 | | | | | |
| | | 32 | | | 0.8 | | | | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 17 | IN CHANNEL, OUT FROM GRUBERS GROVE | SURFACE | 6.7 | 9.3 | | 23.0 | 26.2 | | 8.6 | 7.5 |
| | | 2 | 6.7 | 9.2 | | 23.0 | 26.2 | | | |
| | | 3 | 6.7 | | | 23.0 | | | | |
| | | 4 | | 8.9 | | | 26.2 | | | |
| | | 5 | 6.3 | | | 23.0 | | | | |
| | | 6 | | 9.0 | | | 26.0 | | | |
| | | 7 | 6.2 | | | 23.0 | | | | |
| | | 8 | 6.2 | 8.5 | | 23.0 | 26.0 | | | |
| | | 10 | 6.2 | 8.2 | | 23.0 | 26.0 | | | |
| | | 11 | 6.2 | | | 23.0 | | | | |
| | | 12 | | 8.4 | | | 24.8 | | | |
| | | 13 | 6.2 | | | 23.0 | | | | |
| | | 14 | | 8.0 | | | 24.8 | | | |
| | | 15 | 6.2 | | | 23.0 | | | | |
| | | 16 | 5.3 | 5.9 | | 23.0 | 25.0 | | | |
| | | 18 | 5.3 | 5.6 | | 23.0 | 24.9 | | | |
| | | 20 | 5.2 | 5.3 | | 23.0 | 24.9 | | | |
| | | 21 | 5.2 | | | 23.0 | | | | |
| | | 22 | | 5.3 | | | 24.9 | | | |
| | | 23 | 5.2 | | | 22.0 | | | | |
| | | 24 | 3.1 | 5.3 | | 22.0 | 24.8 | | | |
| | | 26 | | 5.2 | | | 24.9 | | | |
| | | 28 | | 5.2 | | | 24.9 | | | |
| | | 29 | | 0.3 | | | 24.8 | | | |

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TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 18 | 100 YARDS ABOVE DAM, WEST SIDE | SURFACE | 7.2 | 9.0 | | 23.0 | 26.5 | | 8.6 | NA |
| | | 2 | 7.2 | 8.7 | | 23.0 | 26.2 | | | |
| | | 3 | 7.2 | | | 23.0 | | | | |
| | | 4 | | 8.6 | | | 26.0 | | | |
| | | 5 | 7.1 | | | 23.0 | | | | |
| | | 6 | | 8.3 | | | 26.0 | | | |
| | | 7 | 6.8 | | | 23.0 | | | | |
| | | 8 | 6.7 | 8.2 | | 23.0 | 26.0 | | | |
| | | 10 | 6.4 | 8.0 | | 23.0 | 26.0 | | | |
| | | 11 | 6.4 | | | 23.0 | | | | |
| | | 12 | | 6.6 | | | 25.2 | | | |
| | | 13 | 6.3 | | | 23.0 | | | | |
| | | 14 | | 6.3 | | | 25.1 | | | |
| | | 15 | 6.3 | | | 23.0 | | | | |
| | | 16 | 6.2 | 6.0 | | 23.0 | 25.0 | | | |
| | | 18 | 6.2 | 5.2 | | 23.0 | 25.0 | | | |
| | | 20 | 6.1 | 5.1 | | 23.0 | 25.0 | | | |
| | | 21 | 6.1 | | | 23.0 | | | | |
| | | 22 | | 5.2 | | | 24.9 | | | |
| | | 23 | 6.1 | | | 23.0 | | | | |
| | | 24 | | 5.2 | | | 24.9 | | | |
| | | 25 | 6.1 | | | 23.0 | | | | |
| | | 26 | 6.0 | 5.1 | | 23.0 | 24.9 | | | |
| | | 28 | 6.0 | 5.1 | | 23.0 | 24.9 | | | |
| | | 30 | 5.7 | 5.1 | | 23.0 | 24.9 | | | |
| | | 31 | 5.2 | | | 23.0 | | | | |
| | | 32 | | 5.1 | | | 24.9 | | | |
| | | 33 | 4.5 | | | 22.0 | | | | |
| | | 34 | | 5.1 | | | 24.9 | | | |
| | | 36 | | 4.9 | | | 24.9 | | | |
| | | 38 | | 0.4 | | | 24.8 | | | |

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 19 | 100 YARDS ABOVE DAM, CENTER | SURFACE | 6.5 | 9.0 | | 23.0 | 26.8 | | 8.5 | 7.8 |
| | | 2 | 6.4 | 9.8 | | 23.0 | 26.8 | | | |
| | | 3 | 6.4 | | | 23.0 | | | | |
| | | 4 | | 9.4 | | | 26.8 | | | |
| | | 5 | 6.2 | | | 23.0 | | | | |
| | | 6 | | 9.4 | | | 26.5 | | | |
| | | 7 | 6.2 | | | 23.0 | | | | |
| | | 8 | 6.1 | 9.2 | | 23.0 | 26.0 | | | |
| | | 10 | 6.0 | 5.2 | | 23.0 | 25.1 | | | |
| | | 11 | 6.0 | | | 23.0 | | | | |
| | | 12 | | 4.0 | | | 25.0 | | | |
| | | 13 | 6.0 | | | 23.0 | | | | |
| | | 14 | | 3.9 | | | 24.9 | | | |
| | | 15 | 6.0 | | | 23.0 | | | | |
| | | 16 | 5.8 | 4.0 | | 23.0 | 24.8 | | | |
| | | 18 | 5.9 | 4.0 | | 23.0 | 24.8 | | | |
| | | 20 | 5.9 | 4.0 | | 23.0 | 24.8 | | | |
| | | 21 | 6.0 | | | 23.0 | | | | |
| | | 22 | | 4.0 | | | 24.9 | | | |
| | | 23 | 6.0 | | | 23.0 | | | | |
| | | 24 | | 4.1 | | | 24.8 | | | |
| | | 25 | 3.5 | | | 22.0 | | | | |
| | | 26 | | 4.1 | | | 24.8 | | | |
| | | 28 | | 4.0 | | | 24.8 | | | |
| | | 30 | | 4.1 | | | 24.8 | | | |
| | | 32 | | 4.1 | | | 24.8 | | | |
| | | 34 | | 0.6 | | | 24.8 | | | |

TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| 20 | 100 YARDS ABOVE DAM, EAST SIDE | SURFACE | 6.4 | 9.8 | | 23.0 | 26.9 | | 8.5 | 6.7 |
| | | 2 | 6.2 | 9.9 | | 23.0 | 26.8 | | | |
| | | 3 | 6.2 | | | 23.0 | | | | |
| | | 4 | | 9.5 | | | 26.8 | | | |
| | | 5 | 6.1 | | | 23.0 | | | | |
| | | 6 | | 9.2 | | | 26.5 | | | |
| | | 7 | 6.1 | | | 23.0 | | | | |
| | | 8 | 6.1 | 8.8 | | 23.0 | 26.0 | | | |
| | | 10 | 6.1 | 5.4 | | 23.0 | 25.1 | | | |
| | | 11 | 6.1 | | | 23.0 | | | | |
| | | 12 | | 4.0 | | | 24.9 | | | |
| | | 13 | 6.1 | | | 23.0 | | | | |
| | | 14 | | 3.9 | | | 24.8 | | | |
| | | 15 | 6.1 | | | 23.0 | | | | |
| | | 16 | 3.5 | 3.9 | | 23.0 | 24.8 | | | |
| | | 18 | | 3.9 | | | 24.8 | | | |
| | | 20 | | 3.8 | | | 24.8 | | | |
| | | 22 | | 3.8 | | | 24.8 | | | |
| | | 23 | | 0.3 | | | 24.8 | | | |

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TABLE 1 (Cont.)

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| A | 200 YARDS BELOW DAM, WEST SIDE | SURFACE | | 7.2 | 7.4 | | 25.9 | 24.5 | | 7.5 |
| | | 2 | | 7.1 | 7.2 | | 25.8 | 24.5 | | |
| | | 4 | | 7.1 | 7.2 | | 25.9 | 24.5 | | |
| | | 6 | | 7.1 | 7.2 | | 26.0 | 24.5 | | |
| | | 8 | | 7.1 | 7.1 | | 25.9 | 24.5 | | |
| | | 10 | | 7.1 | | | 25.9 | | | |
| | | 12 | | 7.1 | | | 25.9 | | | |
| | | 14 | | 7.1 | | | 26.0 | | | |
| | | 16 | | 7.1 | | | 25.8 | | | |
| | | 18 | | 7.1 | | | 25.9 | | | |
| | | 20 | | 7.1 | | | 25.9 | | | |
| | | 22 | | 7.1 | | | 25.9 | | | |
| | | 24 | | 7.1 | | | 25.9 | | | |
| | | 26 | | 7.1 | | | 25.9 | | | |
| | | 28 | | 7.1 | | | 25.9 | | | |
| | | 30 | | 7.1 | | | 25.9 | | | |
| | | 32 | | 7.1 | | | 25.9 | | | |
| | | 34 | | 7.1 | | | 25.9 | | | |
| | | 36 | | 7.0 | | | 25.9 | | | |
| | | 38 | | 6.9 | | | 25.9 | | | |
| | | 40 | | 7.0 | | | 25.9 | | | |
| | | 42 | | 6.9 | | | 25.9 | | | |

TABLE 1 *(Cont.)*

| SITE | LOCATION | DEPTH (Ft.) | D.O. LEVELS *UNITS: mg/L* | | | TEMPERATURES *degrees Celsius* | | | pH LEVELS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP | 95 M&H | 94 BAAP | 95 BAAP |
| B | BELOW DAM , ABOVE BOAT RAMP | SURFACE | | 7.2 | 7.4 | | 25.7 | 24.5 | | 7.6 |
| | | 2 | | 7.1 | 7.2 | | 25.8 | 24.5 | | |
| | | 4 | | 7.1 | 7.2 | | 25.8 | 24.5 | | |
| | | 6 | | 7.1 | 7.2 | | 25.8 | 24.5 | | |
| | | 8 | | 7.1 | 7.1 | | 25.8 | 24.5 | | |
| | | 10 | | 7.1 | | | 25.8 | 24.5 | | |
| | | 12 | | 7.1 | | | 25.8 | 24.5 | | |
| | | 14 | | 6.7 | | | 25.8 | 24.5 | | |
| C | HIGHWAY 60 BRIDGE | SURFACE | | 7.2 | 7.2 | | 25.1 | 24.5 | | 7.5 |
| | | 2 | | 7.3 | 7.2 | | 25.3 | 24.5 | | |
| | | 4 | | 7.2 | 7.1 | | 25.1 | 24.5 | | |
| | | 6 | | 7.2 | 7.1 | | 25.1 | 24.5 | | |
| | | 8 | | 7.2 | 7.1 | | 25.1 | 24.5 | | |
| | | 10 | | 7.2 | | | 25.2 | | | |
| | | 12 | | 7.2 | | | 25.2 | | | |
| | | 14 | | 7.2 | | | 25.2 | | | |
| | | 16 | | 7.2 | | | 25.2 | | | |
| | | 17 | | 7.0 | | | 25.2 | | | |

| SITE: | LOCATION: | |
|---|---|---|
| 1. | INTERSTATE BRIDGE | **94 BAAP 8/31/94 10:00 a.m.**<br>Observations at the time of sampling: Light rain and windy; temperature was approximately 60° F. The depth varied from 4-5 feet with the sampling location just below a center pylon being about 10 feet long.<br><br>**95 BAAP 8/23/95 08:45 a.m.**<br>Strong current held probe out at an angle. Actual depths are somewhat lower.<br><br>**95 M&H 8/23/95 08:45 a.m.**<br>Depth measurements not accurate due to high velocities. |
| 2. | TIPPERARY POINT | **94 BAAP 8/31/94 10:22 a.m.**<br>Strong north wind and rain. Measurements were taken in center of the mouth of the river between Tipperary Point and the area directly opposite Tipperary Point forming the mouth of the river. The sampling point was the approximate center of the channel near a channel marker. The average depth of the channel coming from the river and the sampling area was approximately 12-14 feet.<br><br>**95 BAAP 8/23/95 9:20 a.m.**<br>Partly cloudy, windy. Probe at slight angle due to current.<br><br>**95 M&H 8/23/95 9:20 a.m.**<br>Depth measurements not accurate due to white-cap waves and high velocities. |
| 3. | STONERS BAY | **94 BAAP 8/31/94 10:40 a.m.**<br>Strong winds prevailed but area was sheltered and the surface was very calm. The depths indicated in the WP&L Report were not found in the area. The lake area along the north shore forming the cove area was five feet deep. Upon entering Stoners Bay, the bay itself was full of lily pads in the back half. The opening of Stoners Bay was clear of vegetation and actually deeper than the adjacent cove which shallows to 2-3 feet. The readings were taken between the two small points defining Stoners Bay at approximately 4 feet.<br><br>**95 BAAP 8/23/95 9:45 a.m.**<br>Sunny, moderate breeze, ripple on water -- nearly calm.<br><br>**95 M&H 8/23/95 9:45 a.m.**<br>Shallow bay protected from the wind and current; slight ripple on the surface. |

| SITE: | LOCATION: | |
|---|---|---|
| 4. | WHALENS BAY | **94 BAAP 8/31/94 11:01 a.m.**<br>Strong northerly winds and rain. The road bridge over the access to the back of Whalens Bay and Rowan Creek did not have enough clearance to pass under. The lake side of Whalens Bay was shallow and averaged 3 feet deep with a creek channel coming from the road bridge which was about 9 feet near the bridge and gets shallower towards the lake. The sample point was the area immediately west of the road bridge in the creek channel.<br><br>**95 BAAP 8/23/95 10:00 a.m.**<br>Sunny and breezy. Water choppy.<br><br>**95 M&H 8/23/95 10:00 a.m.**<br>Profile location in front of the bridge along Whalen Grade. Somewhat protected from wind. |
| 5. | STICKY BAY | **94 BAAP 8/31/94 11:23 a.m.**<br>A very strong wind blowing from the north into Sticky Bay caused waves 2-2½ feet. The water was very dark and muddy. Upon leaving the channel and entering the bay, the water immediately shallowed to 7 feet. At the halfway point into the bay, the water was at a constant 6 feet.<br><br>**95 BAAP 8/23/95 10:20 a.m.**<br>Strong breeze, partly cloudy, lightly choppy.<br><br>**95 M&H 8/23/95 10:20 a.m.**<br>Appears to be little mixing/communication with the primary river flows. |
| 6. | PINE BLUFF | **94 BAAP 8/31/94 11:36 a.m.**<br>A strong wind was blowing into Pine Bluff, causing two-foot waves. The river channel flows along the face of Pine Bluff, so readings represent the channel as well as Pine Bluff. The area of the sampling, about 50 yards from Pine Bluff near the west end, averaged 12 feet deep on the sonar. The 0.5 meter increments are probably slightly longer than 0.5 meters.<br><br>**95 BAAP 8/23/95 10:20 a.m.**<br>Overcast, windy, choppy.<br><br>**95 M&H 8/23/95 10:20 a.m.**<br>Choppy waves, profile located in the main river channel. |

| SITE: | LOCATION: | |
|---|---|---|
| 7. | OKEE BAY | **94 BAAP** **8/31/94** **11:53 a.m.**<br>A strong wind was blowing into the bay. The sample readings were taken in the channel about 100 feet from the road bridge on the Okee side. The rest of Okee Bay was about 4-6 feet deep. The bay itself was calm.<br><br>**95 BAAP** **8/23/95** **10:40 a.m.**<br>D.O. calibration checked when results didn't compare. Air calibration: 8:1. Actual: 8:24. No meter adjustments made. Sunny, light breeze, ripple on water.<br><br>**95 M&H** **8/23/95** **10:40 a.m.**<br>Profile location on the inside of Okee Bay bridge, protected from wind. Re-calibrated the D.O. meter. |
| 8. | MERRIMAC FERRY | **94 BAAP** **8/31/94** **1:05 p.m.**<br>Windy and 1-1½ foot waves. The sample readings were taken in the center of the lake approximately 300 feet from the bridge at the deepest location found.<br><br>**95 BAAP** **8/23/95** **12:30 p.m.**<br>Sunny, windy, choppy.<br><br>**95 M&H** **8/23/95** **12:30 p.m.**<br>Depth measurements not accurate due to high velocities. |
| 9. | SUNSET BAY | **94 BAAP** **8/31/94** **1:17 p.m.**<br>The wind was blowing into the bay. The measurements were taken at the center of the back of the bay.<br><br>**95 BAAP** **8/23/95** **12:50 p.m.**<br>Breezy, overcast, light chop.<br><br>**95 M&H** **8/23/95** **12:50 p.m.**<br>Protected from the wind. Apparently little communication or mixing with the main river. |

| SITE: | LOCATION: | |
|---|---|---|
| 10. | CHANNEL ACROSS FROM SUNSET BAY | **94 BAAP** **8/31/94** **2:08 p.m.**<br>The measurements were taken from the channel out from the center of Sunset Bay one-third of the way across the lake from Sunset Bay.<br><br>**95 BAAP** **8/23/95** **1:05 p.m.**<br>Breezy, overcast, light chop.<br><br>**95 M&H** **8/23/95** **1:05 p.m.**<br>Choppy waves; profile located in the main river channel. |
| 11. | MOON VALLEY BAY | **94 BAAP** **8/31/94** **1:30 p.m.**<br>The bay was sheltered form the wind and was calm. The measurements were taken just south of the mouth of the back of the bay where the water was deeper. A "flat" is located in the mouth of the back of the bay, which is only about 5-6 feet deep.<br><br>**95 BAAP** **8/23/95** **1:20 p.m.**<br>Sunny, light breeze, ripple.<br><br>**95 M&H** **8/23/95** **1:20 p.m.**<br>Protected from the wind. A lot of boat traffic. |
| 12. | WIEGANDS BAY (RIVER PUMP) | **94 BAAP** **8/31/94** **1:41 p.m.**<br>The bay was sheltered from the wind. The measurements were taken approximately 200 feet off the river pumping station towards the body of the lake.<br><br>**95 BAAP** **8/23/95** **1:40 p.m.**<br>Sunny, calm, light ripple.<br><br>**95 M&H** **8/23/95** **1:40 p.m.**<br>*-- No comments provided --* |
| 13. | MAIN CHANNEL OUT FROM WIEGANDS BAY | **94 BAAP** **8/31/94** **1:54 p.m.**<br>The wind was not as strong as mid-morning, and the lake flows more north to south, so the wind is more down the lake. The measurements were taken at mid-lake, just below the south shore point.<br><br>**95 BAAP** **8/23/95** **1:55 p.m.**<br>*-- No comments provided --*<br><br>**95 M&H** **8/23/95** **1:55 p.m.**<br>Slight "chop" on the water. Suspect the D.O. meter is malfunctioning. |

G-26

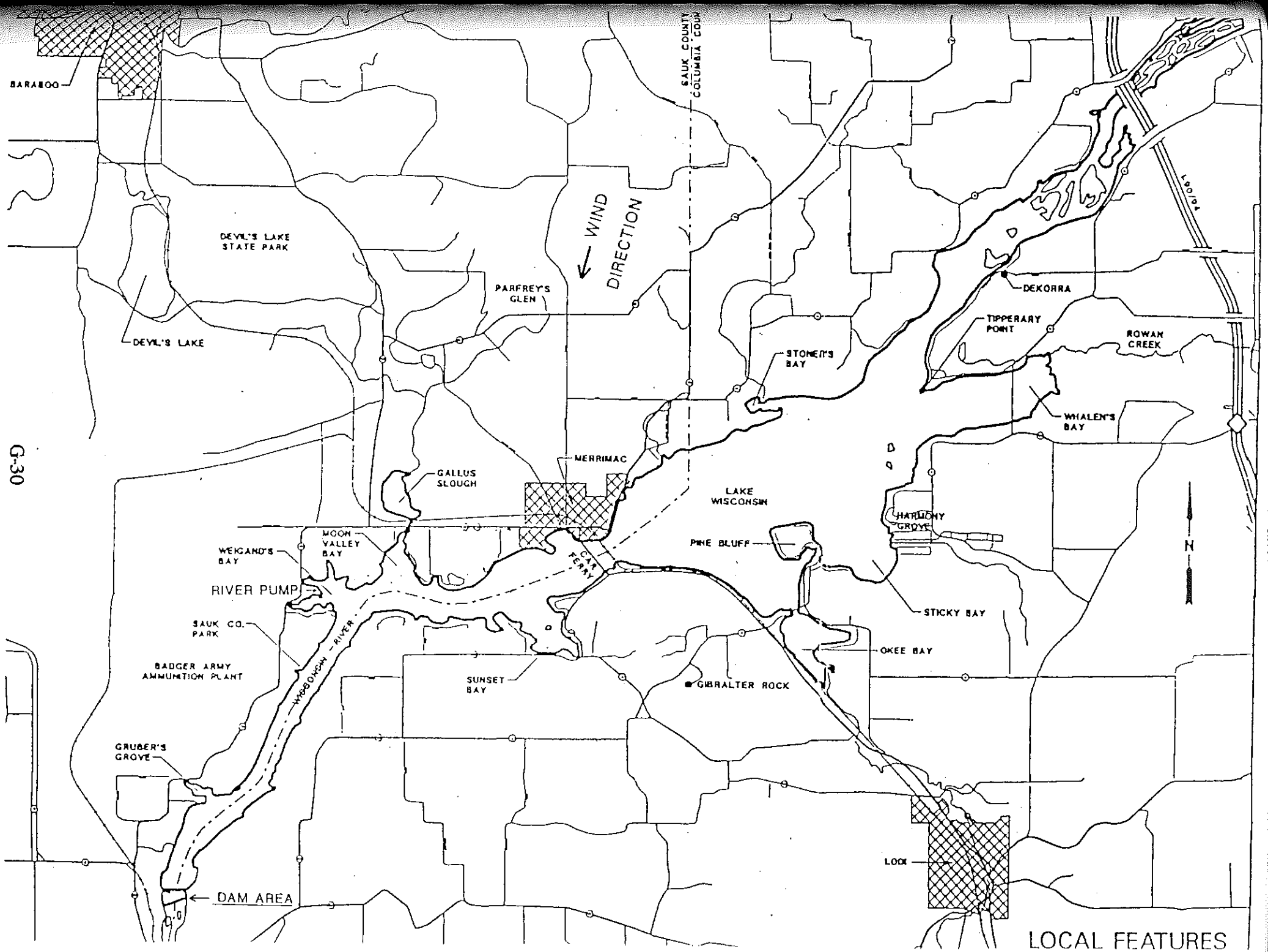
| SITE: | LOCATION: | |
|---|---|---|
| 14. | 100 FEET ABOVE IRM DISCHARGE SITE NEAR SHORE.....*(1994)* | 94 BAAP 8/31/94 2:32 p.m.<br>The measurements were taken approximately 100 feet above the discharge area at the end of the overhanging trees. The area is sheltered from the wind.<br><br>95 BAAP 8/23/95 2:20 p.m.<br>Sunny, breezy, light swell.<br><br>95 M&H 8/23/95 2:20 p.m.<br>About 30 yards out from the west riverbank. Ripple on the water's surface. |
| 14a. | 150 YARDS UPSTREAM FROM IRM DISCHARGE.....*(1995)* | |
| 15. | IRM DISCHARGE SITE | 94 BAAP 8/31/94 2:45 p.m.<br>The measurements were taken approximately one-fourth of the way across the lake. A light north wind was blowing across and down the lake.<br><br>95 BAAP 8/23/95 2:55 p.m.<br>Sunny, light breeze, ripples.<br><br>95 M&H 8/23/95 2:55 p.m.<br>Due to equipment malfunction, temperature readings are not complete. |
| 16. | IN CHANNEL, OUT FROM IRM DISCHARGE | 94 BAAP 8/31/94 2:58 p.m.<br>The wind was blowing down the lake and into the shore. The surface had six-inch waves.<br><br>95 BAAP 8/23/95 3:20 p.m.<br>Sunny, breezy, light swell.<br><br>95 M&H 8/23/95 3:20 p.m.<br>Due to equipment malfunction, temperature readings are not complete. |
| 17. | CHANNEL OUT FROM GRUBER'S GROVE | 94 BAAP 8/31/94 3:20 p.m.<br>Measurements were taken from center of channel out from center of Gruber's Grove.<br><br>95 BAAP 8/23/95 3:40 p.m.<br>Sunny, breezy, smooth swells.<br><br>95 M&H 8/23/95 3:40 p.m.<br>*-- No readings by M&H, due to equipment malfunction --* |

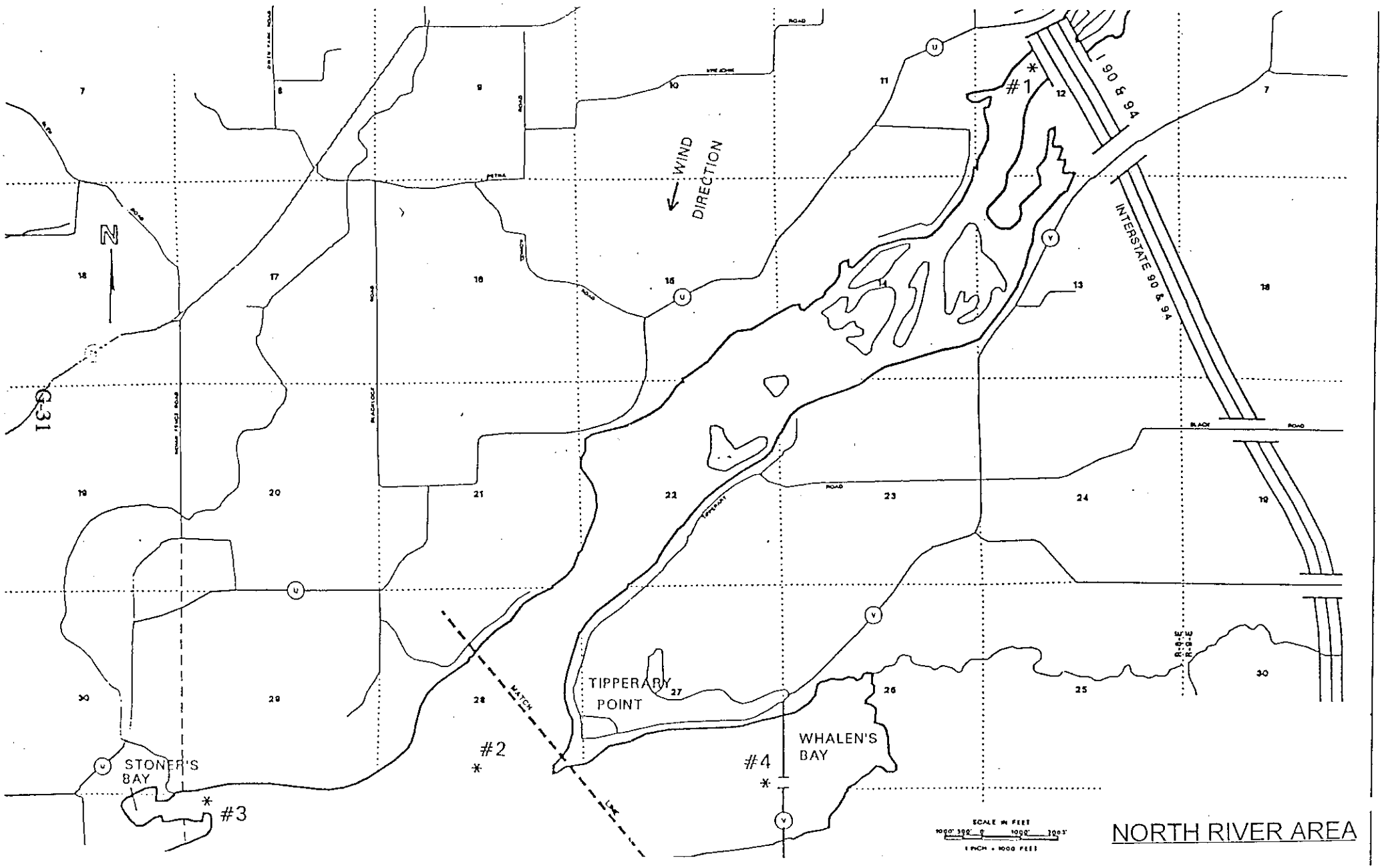
G-27

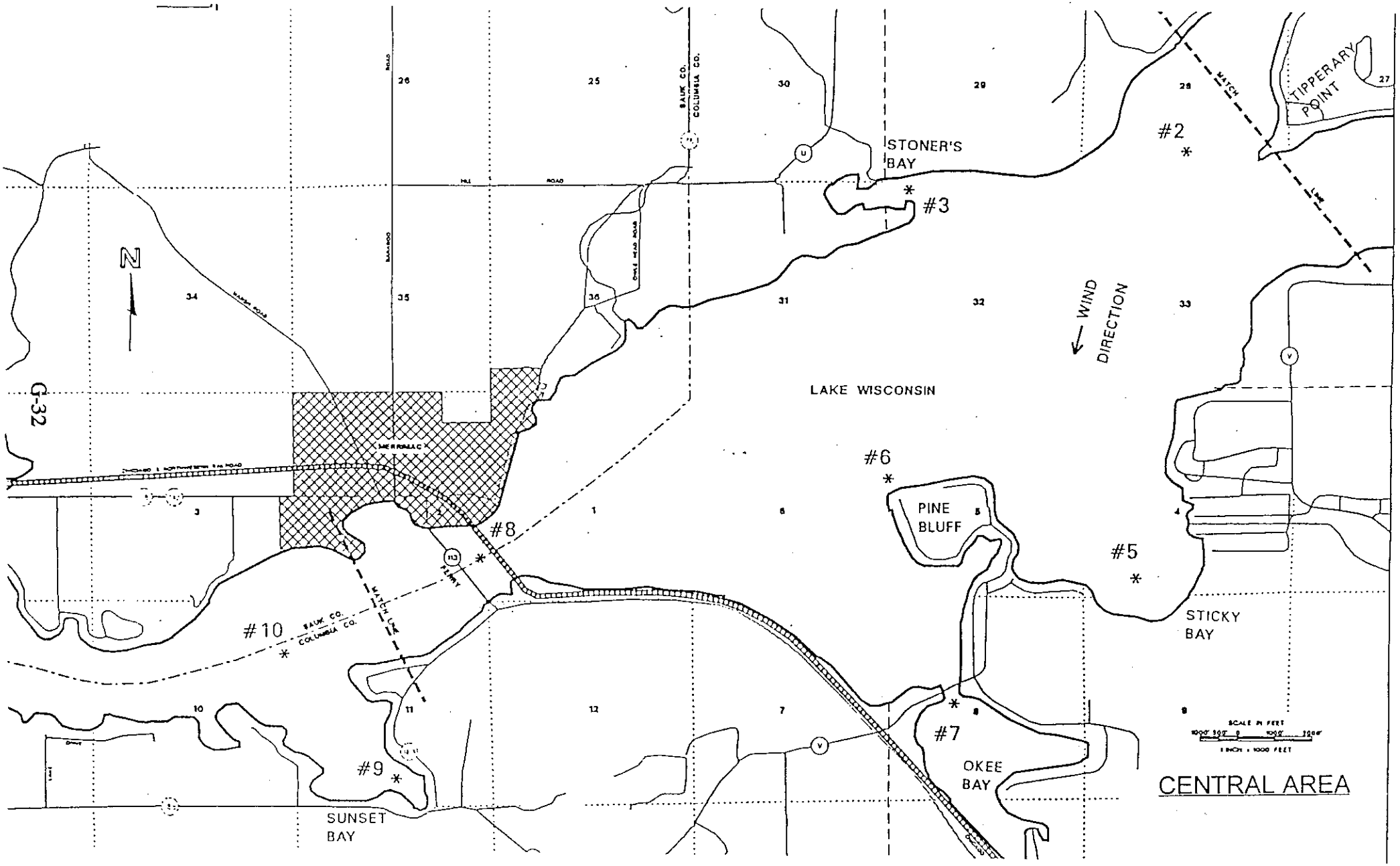
| SITE: | LOCATION: | |
|---|---|---|
| 18. | ABOVE DAM, 100 YARDS NORTH OF WP&L POWERHOUSE, WEST SIDE | 94 BAAP 8/31/94 3:36 p.m.<br>The wind was blowing into the dam and the lake had 1-1½ foot waves.<br><br>95 BAAP 8/23/95 4:35 p.m.<br>Sunny, calm. Cable at extreme angle.<br><br>95 M&H 8/23/95 4:35 p.m.<br>*-- No readings by M&H, due to equipment malfunction --* |
| 19. | ABOVE DAM, CENTER | 94 BAAP 8/31/94 3:49 p.m.<br>The measurements were taken above power pole tower. The surface was choppy.<br><br>95 BAAP 8/23/95 4:20 p.m.<br>Sunny, calm.<br><br>95 M&H 8/23/95 4:20 p.m.<br>*-- No readings by M&H, due to equipment malfunction --* |
| 20. | ABOVE DAM, EAST SIDE | 94 BAAP 8/31/94 3:55 p.m.<br>East end of the dam is not as deep as above the powerhouse. The water surface was choppy. The measurements were taken 100 feet above the southmost marker buoy.<br><br>95 BAAP 8/23/95 4:05 p.m.<br>Sunny, calm.<br><br>95 M&H 8/23/95 4:05 p.m.<br>*-- No readings taken by M&H, due to equipment malfunction --* |
| A. | 100 YARDS BELOW DAM, WEST SIDE | 94 BAAP<br>*-- Not included in 1994 survey --*<br><br>95 BAAP 8/24/95 11:55 a.m.<br>Overcast; strong current, light breeze. Depth does not indicate actual depth due to the strong current.<br><br>95 M&H 8/24/95 11:55 a.m.<br>The D.O. meter cable only reached a depth of eight feet. |

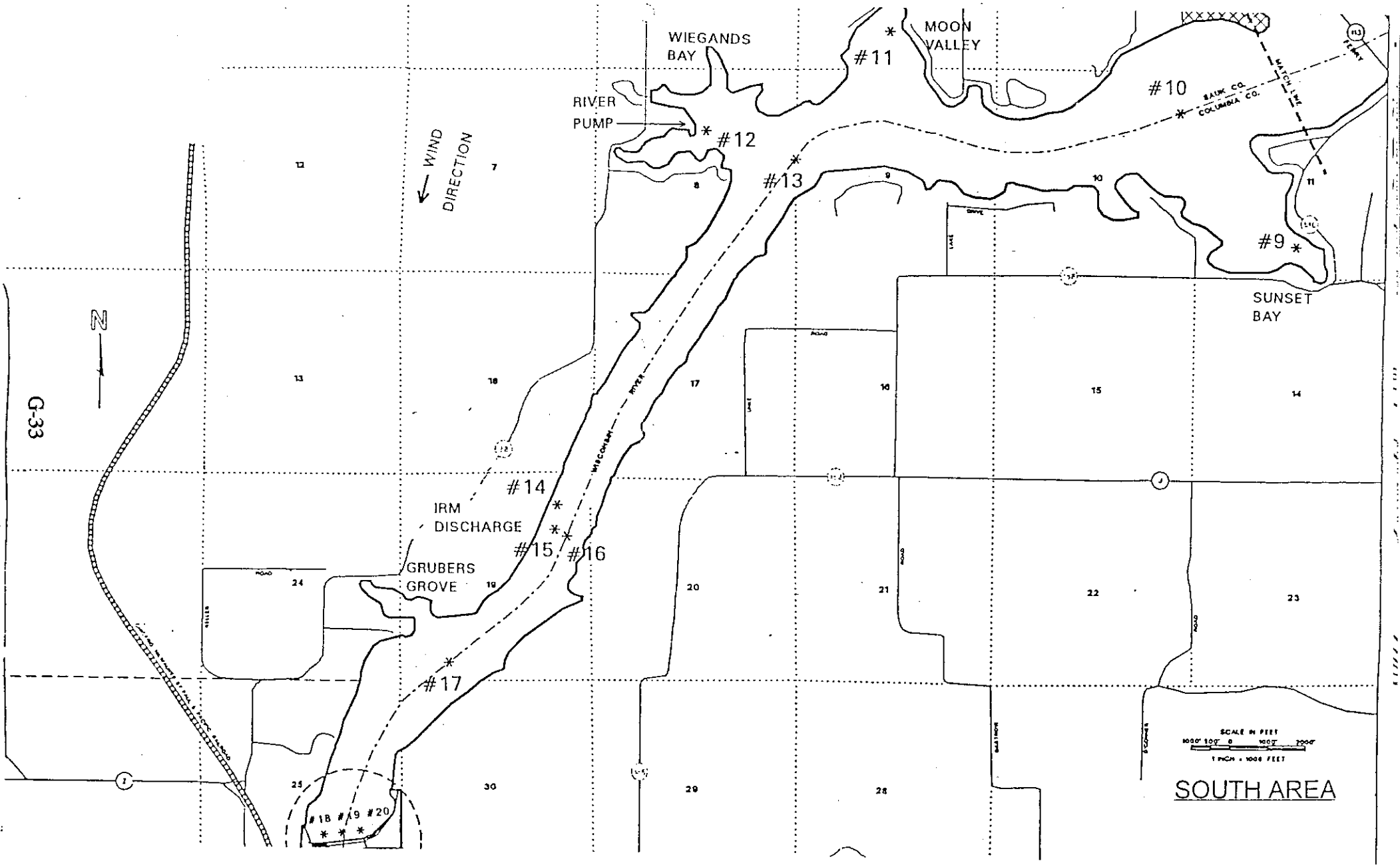
| SITE: | LOCATION: | |
|---|---|---|
| B. | BELOW DAM, ABOVE BOAT RAMP | 94 BAAP<br>*-- Not included in 1994 survey --*<br><br>95 BAAP 8/24/95 12:15 p.m.<br>Overcast; calm, fairly strong current.<br><br>95 M&H 8/24/95 12:15 p.m.<br>The D.O. meter cable only reached a depth of eight feet. |
| C. | HIGHWAY 60 BRIDGE | 94 BAAP<br>*-- Not included in 1994 survey --*<br><br>95 BAAP 8/24/95 12:30 p.m.<br>Overcast; westerly breeze; water calm.<br><br>95 M&H 8/24/95 12:30 p.m.<br>The D.O. meter cable only reached a depth of eight feet. |

G-29

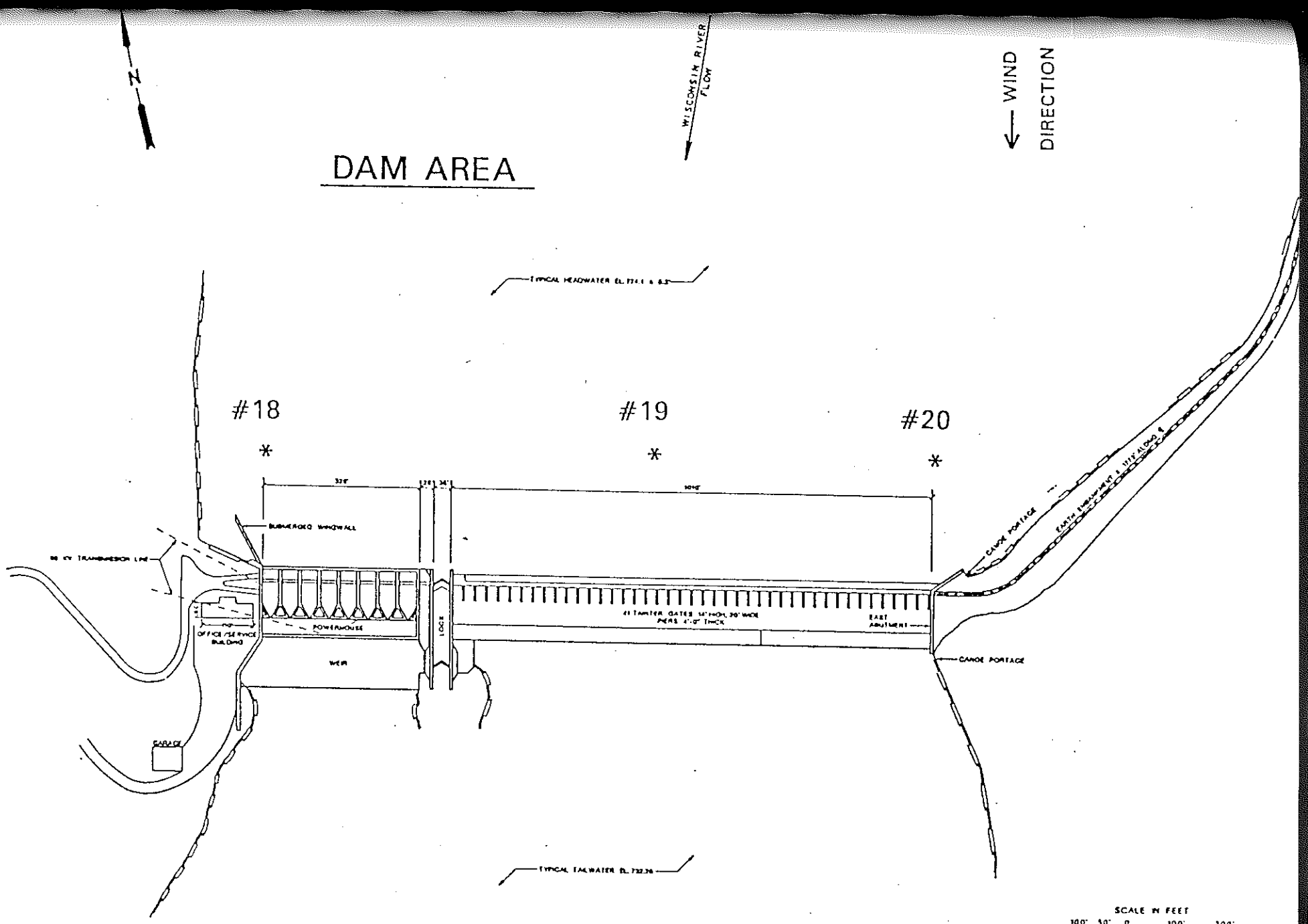

BARABOO
DEVIL'S LAKE STATE PARK
DEVIL'S LAKE
PARFREY'S GLEN
WIND DIRECTION
SAUK COUNTY
COLUMBIA COUN
I-90/94
DEKORRA
TIPPERARY POINT
ROWAN CREEK
STONER'S BAY
WHALEN'S BAY
MERRIMAC
GALLUS SLOUGH
LAKE WISCONSIN
HARMONY GROVE
PINE BLUFF
CAR FERRY
MOON VALLEY BAY
WEIGAND'S BAY
RIVER PUMP
STICKY BAY
SAUK CO. PARK
BADGER ARMY AMMUNITION PLANT
WISCONSIN RIVER
OKEE BAY
SUNSET BAY
GIBRALTER ROCK
GRUBER'S GROVE
DAM AREA
LOCK
N
LOCAL FEATURES


#1
#2
#3
#4
WIND DIRECTION
N
G-31
I 90 & 94
INTERSTATE 90 & 94
TIPPERARY POINT
WHALEN'S BAY
STONER'S BAY
MATCH LINE
SCALE IN FEET
NORTH RIVER AREA


STONER'S BAY
#2
#3
TIPPERARY POINT
MATCH LINE
WIND DIRECTION
LAKE WISCONSIN
#6
PINE BLUFF
#8
#5
STICKY BAY
#10
BALK CO.
COLUMBIA CO.
#7
OKEE BAY
#9
SUNSET BAY
CENTRAL AREA
G-32
N

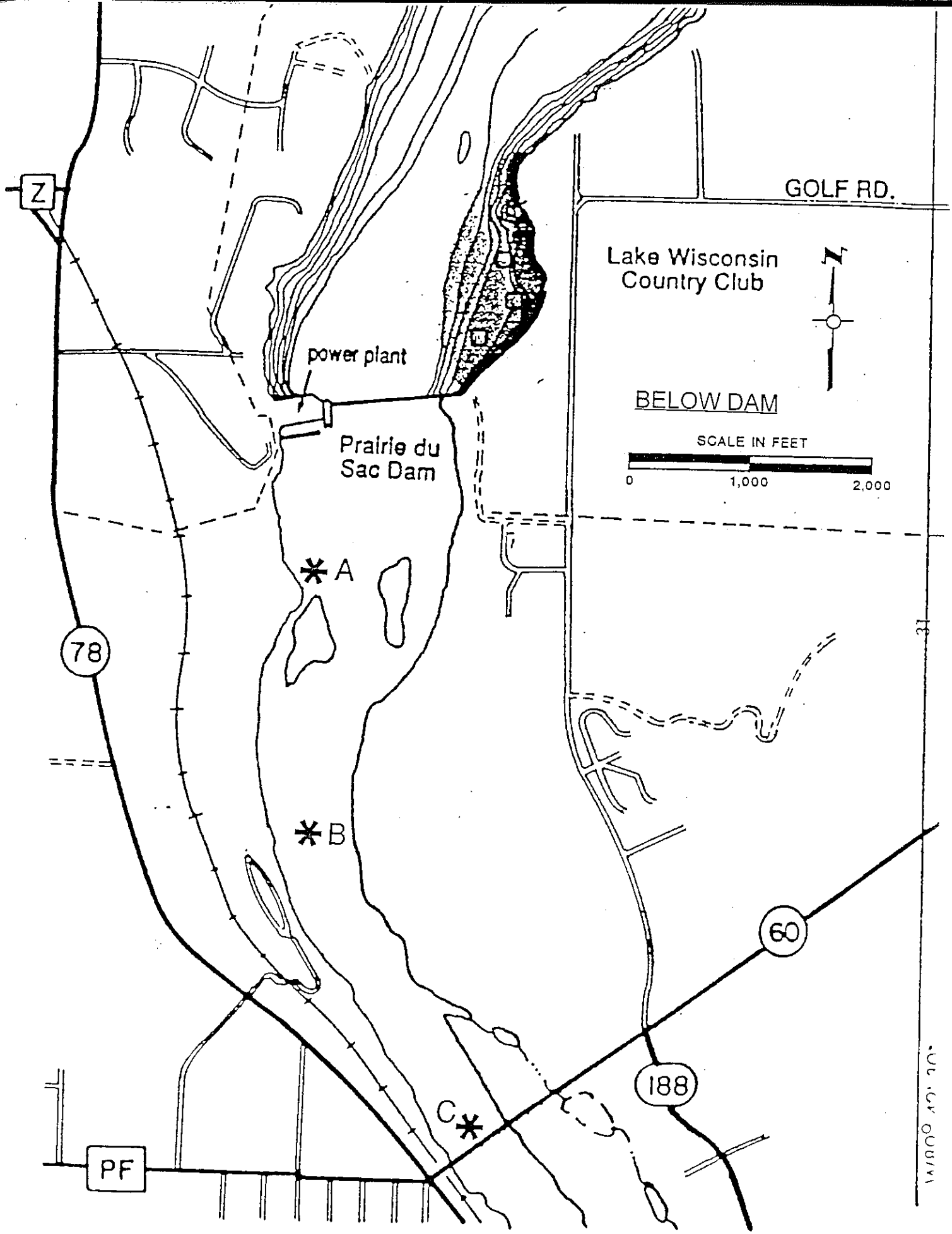

WIEGANDS BAY
MOON VALLEY
#11
#10
RIVER PUMP
#12
WIND DIRECTION
#13
#9
SUNSET BAY
N
G-33
#14
IRM DISCHARGE
#15
#16
GRUBERS GROVE
#17
#18 #19 #20
SCALE IN FEET
SOUTH AREA

# DAM AREA






DATUM USED FOR THESE DRAWINGS CORRESPONDS TO CURRENT U.S.G.S. DATUM.




PRAIRIE du SAC

INTER OFFICE MEMO Olin

TO L. M. UNVERZAGT AT

DATE 16 MARCH 1994

FROM G. K. SHALABI AT

COPY TO J. P. HANSEN
J. R. MATTEI
D. C. FORDHAM

SUBJECT DISSOLVED OXYGEN (D.O.) READINGS AT LAKE WISCONSIN

On the 7th of March 1994, dissolved oxygen (D.O.) readings were taken through the ice at three different locations on Lake Wisconsin, marked as locations # 1, # 2, and # 3 on the attached map. Six readings were taken at location # 1 and two readings each at locations # 2 and # 3. The temperature was also taken in all cases and in all cases was 1° Centigrade. The depth of water readings were started at the bottom of the ice layer and were recorded along with each dissolved oxygen reading as shown in the attached table.

Location # 1

Six holes starting at 30 and then 60, 90, 120, 150 and 270 feet from the bank were bored through the ice. The bores were parallel to the dam at approximately 300 yards away. The depth of the water ranged from 1 to 12 feet and D.O. readings taken ranged from 6.5 to 11.0 mg/L.

The lower D.O level of 6.5 mg/L was taken where the water was 1 foot deep at bore #1 and could be attributed to the biological activity in the sludge. See the table for the remaining results which are all above 10.4 mg/L.

Location # 2

The second location on the map was at Gruber's Grove Bay. The ice did not seem to be as solid as it was above the dam because of Badger's run off during the warm spell which was obvious during sample time. Two holes were bored as shown on the map, one at 30 feet and one at 60 feet from shore in the center directly south of Badger's effluent (See table for results).

Location # 3

The third location on the map was at Summer Oaks boat landing. Again two holes were bored. One at 30 feet from shore and the second at 60 feet (as shown on the map). The 60 foot bore was clearly in the river current (See table for results).

The D.O. level of an additional water sample taken from Summer Oaks boat landing and read at the laboratory on a different meter was 10.6 mg/L. The sample was taken 60 feet from the bank. A water sample taken from Summer Oaks boat landing on 12 January 1994 was 30 feet from the bank had a reading of 10.5 mg/L on the same laboratory meter.

Higher dissolved oxygen readings are normally experienced in the winter months when the water temperature has a higher capacity for dissolved oxygen. Additional readings will be taken during summer months when the water temperature is at its highest and has a lower capacity for dissolved oxygen.

G. K. SHALABI
Chief Engineer
Labs & Special Projects

GKS/asr
Attachments: as stated

16 March 1994

## TABLE OF DISSOLVED

## OXYGEN READINGS AND LOCATIONS

### LOCATION # 1 - 300 YARDS NORTH OF PRAIRIE DU SAC DAM

| BORE # | DISTANCE FROM BANK Ft. | DEPTH OF READING Ft. | D.O. READING mg/L |
|---|---|---|---|
| 1 | 30 | Bottom of ice | 6.5 |
| | " | + 1 ft. 2" off bottom | 6.5 |
| 2 | 60 | Bottom of ice | 10.4 |
| | " | + 1 ft. | 10.8 |
| | " | + 2 ft. | 10.8 |
| | " | Lake bottom | No Reading |
| 3 | 90 | Bottom of ice | 10.9 |
| | " | + 1 ft. | 10.9 |
| | " | + 2 ft. | 10.9 |
| | " | + 3 ft. (2" off bottom) | 10.9 |
| 4 | 120 | Bottom if ice | 10.9 |
| | " | + 1 ft. | 10.9 |
| | " | + 2 ft. | 10.9 |
| | " | + 3 ft. | 10.9 |
| | " | + 4 ft. (2 " off bottom) | 10.0 |
| 5 | 150 | Bottom of ice | 11.0 |
| | " | + 1 ft. | 10.9 |
| | " | + 2 ft. | 10.9 |
| | " | + 3 ft. | 10.8 |
| | " | + 4 ft. | 10.8 |
| | " | + 4.5 ft. (2 " off bottom) | 10.4 |
| 6 | 270 | Bottom of ice | 11.0 |
| | " | + 1 ft. | 10.8 |
| | " | + 2 ft. | 10.8 |
| | " | + 3 ft. | 10.8 |
| | " | + 4 ft. | 10.8 |
| | " | + 5 ft. | 10.8 |
| | " | + 6 ft. | 10.8 |
| | " | + 7 ft. | 10.7 |
| | " | + 8 ft. | 10.7 |
| | " | + 9 ft. | 10.7 |
| | " | + 10 ft. | 10.8 |
| | " | + 11 ft. | 10.7 |
| | " | + 12 ft. (2" off bottom) | 10.7 |

LOCATION #2 - GRUBER'S GROVE BAY DIRECTLY SOUTH OF BAAP EFFLUENT

| BORE # | DISTANCE FROM BANK | DEPTH OF READING | D.O. READING mg/L |
|---|---|---|---|
| | Ft. | Ft. | |
| 1 | 30 | Bottom of ice | 11.0 |
| | ~ | + 1 ft. (2' off bottom) | 10.0 |
| 2 | 60 | Bottom of ice | 11.0 |
| | ~ | + 1 ft. (2' off bottom) | 10.2 |

LOCATION #3 - SUMMER OAKS BOAT LANDING

| BORE # | DISTANCE FROM BANK | DEPTH OF READING | D.O. READING mg/L |
|---|---|---|---|
| | Ft. | Ft. | |
| 1 | 30 | Bottom of ice | 10.8 |
| | ~ | + 1 ft. | 10.7 |
| | ~ | + 2 ft. | 10.7 |
| | ~ | + 3 ft. | 10.7 |
| | ~ | + 4 ft. | 10.7 |
| | ~ | + 5 ft. | 10.8 |
| | ~ | + 5.5 ft. | No Reading |
| 2 | 60 River Current | Bottom of ice | 10.9 |
| | ~ | + 1 ft. | 10.8 |
| | ~ | + 2 ft. | 10.8 |
| | ~ | + 3 ft. | 10.8 |
| | ~ | + 4 ft. | 10.8 |
| | ~ | + 5 ft. | 10.8 |
| | ~ | + 6 ft. | 10.8 |
| | ~ | + 7 ft. | 10.7 |
| | ~ | + 8 ft. | 10.7 |
| | ~ | + 9 ft. | 10.7 |
| | ~ | + 10 ft. | 10.8 |
| | ~ | + 11 ft. | 10.7 |
| | ~ | + 12 ft. | 10.7 |
| | ~ | + 12.5 ft. | No Reading |

# APPENDIX H
# Lake Wisconsin Profile Weather Observations

# Lake Wisconsin Profile Sampling Weather Observations-1996

| Date | Observations |
|---|---|
| 5 June, 1996 | Clear, calm day with bright sun. Approximately 60 degrees Fahrenheit (F). |
| 6 June, 1996 | Calm winds, mostly cloudy. |
| 10 June, 1996 | Windy and overcast. |
| 13 June, 1996 | Sunny and bright, warm with no breeze. |
| 17 June, 1996 | Overcast and calm. |
| 20 June, 1996 | Clear and Sunny. Heavy rains the previous 3 days. |
| 24 June, 1996 | Cloudy and cool with a light breeze from the north. |
| 27 June, 1996 | Sunny and warm. Light breeze from the south. |
| 1 July, 1996 | Warm and sunny with a slight breeze from the southwest. |
| 3 July, 1996 | Water is calm, slight breeze, sunny and 70 degrees F. |
| 9 July, 1996 | Overcast and windy with rain sprinkles. |
| 11 July, 1996 | Sunny, clear and calm. Approximately 64 degrees F. |
| 15 July, 1996 | Sunny, slight breeze. Approximately 70 degrees F. |
| 18 July, 1996 | Overcast and calm. Heavy rainfall overnight. |
| 22 July, 1996 | Partly sunny and windy. Approximately 65 degrees F. |
| 25 July, 1996 | Overcast, breezy and cool. |
| 29 July, 1996 | Overcast and calm. |
| 1 August, 1996 | Sunny and calm. Approximately 65 degrees F. |
| 5 August, 1996 | Partly sunny, hazy and humid. Approximately 80 degrees F. |
| 8 August, 1996 | Bright sun and calm. 69 degrees F. |
| 12 August, 1996 | Sunny and calm. Approximately 65 degrees F. |
| 15 August, 1996 | Overcast, breezy and cool. |
| 20 August, 1996 | Overcast and Calm. |
| 22 August, 1996 | Overcast and a slight breeze. Approximately 75 degrees F. |
| 26 August, 1996 | Sunny, warm and calm. |
| 29 August, 1996 | Foggy and cool. Sun beginning to break through. |
| 18 September, 1996 | Foggy and cold. |
| 21 October, 1996 | Breezy and partly cloudy. 50 degrees F. |
| 21 November, 1996 | Slightly overcast and 28 degrees F. |
| 9 December, 1996 | None recorded. |

# Lake Wisconsin Profile Sampling Weather Observations-1997

| Date | Observations |
|---|---|
| 1 January, 1997 | Overcast and breezy. 40 degrees Fahrenheit (F). |
| 17 February, 1997 | Sunny and 25-30 degrees F. 4 inches of snow cover on ice. |
| 19 March, 1997 | Sunny and 20 degrees F. Snow melt during the previous days and then turned colder. |
| 23 April, 1997 | Breezy and 40 degrees F. Last few days were sunny and 50 degrees F. |
| 7 May, 1997 | Sunny and 50 degrees F. Last few days were sunny. |
| 2 June, 1997 | Sunny and windy, 60 degrees F. Last two days have been sunny and 70 degrees F. An unseasonably cool spring. |
| 5 June, 1997 | Overcast and breezy. |
| 9 June, 1997 | Clear skies, sunny and a strong wind. |
| 12 June, 1997 | Sunny, warm and calm. |
| 16 June, 1997 | Bright and sunny today. Yesterday was rainy. |
| 19 June,1997 | Sunny, hazy and calm. |
| 23 June, 1997 | Sunny, hot and humid. Same conditions for the past two days. |
| 25 June, 1997 | Overcast and breezy. Approximately 70 degrees F. Warm and muggy for past few days. |
| 1 July, 1997 | Sunny, warm and calm. Yesterday was stormy with heavy rain. |
| 2 July, 1997 | Bright sun and very windy. Thunderstorms overnight. |
| 7 July, 1997 | Sunny, calm and cool. Previous days have been sunny and cool. |
| 10 July, 1997 | Sunny and cool. Sunny and cool for the last few days. |
| 14 July, 1997 | Hot and humid today. Hot and humid the last few days. Thunderstorms overnight. |
| 21 July, 1997 | Overcast, muggy and cool. Last few days have been hot and humid with thunderstorms overnight. |
| 24 July, 1997 | Clear, sunny and calm. |
| 28 July, 1997 | Clear and sunny. Breezy and warm. |
| 31 July, 1997 | Sunny and cooler, approximately 60 degrees F. Calm winds and no rain. |
| 4 August, 1997 | Overcast, humid and cool. Past few days have been hot with thunderstorms. |
| 7 August, 1997 | Clear skies, breezy and cool. Past few days have been sunny and 70 to 80 degrees F. |
| 13 August, 1997 | Partly sunny, cool and breezy. Last few days have been rainy and cloudy |
| 14 August, 1997 | Sunny and hazy, breezy and cool. |
| 18 August, 1997 | Overcast, breezy and cold. Last few days have been rainy and cool. |
| 21 August, 1997 | Sunny, breezy and cool. Last few days have been rainy and cool. |
| 25 August, 1997 | Cloudy, cool and breezy. |
| 27 August, 1997 | Overcast, foggly and humid. |
| 17 September, 1997 | Clear and sunny with a light breeze, 65 degrees F. Thunderstorms last night. |

# APPENDIX I
## Photographs