

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1989 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 6/27/89         |                |                                  |                     | 3.35 104                                       | 70.9 993                                                                     | 0.13 2                                                          |                      | 22.9          | 7.845        | 8.049             | 4,455              | 7.95        |                    |             |
| W3B  | -7.32             | 8/10/89         | 1405           |                                  |                     | 3.40 105                                       | 77.8 1090                                                                    | 0.38 5                                                          |                      | 22.4          | 7.821        | 8.016             | 4,437              | 7.33        |                    |             |
| W3B  | -7.32             | 8/16/89         | 1455           |                                  |                     | 2.97 92                                        | 64.0 896                                                                     | 0.58 8                                                          |                      | 22.8          | 7.827        | 7.849             | 4,345              | 7.47        |                    |             |
| W3B  | -7.32             | 8/24/89         | 1140           |                                  |                     | 3.33 103                                       | 72.2 1011                                                                    | 0.38 5                                                          |                      | 22.7          | 7.957        | 7.691             | 4,257              | 7.47        |                    |             |
| W3B  | -7.32             | 8/29/89         | 1055           |                                  |                     | 3.44 107                                       | 88.3 1237                                                                    | 0.38 5                                                          |                      |               | 7.912        |                   |                    | 7.73        |                    |             |
| W3B  | -7.32             | 8/29/89         | 1055           |                                  |                     | 3.49 108                                       | 89.8 1258                                                                    | 0.38 5                                                          |                      |               |              |                   |                    |             |                    |             |
| W3B  | -7.32             | 10/30/89        | 1110           |                                  |                     | 3.33 103                                       | 78.6 1101                                                                    | 0.01 0                                                          | 674 18930            | 22.6          | 7.820        | 7.998             | 4,427              | 7.37        |                    |             |
| W3B  | -7.32             | 11/16/89        | 1025           |                                  |                     | 3.46 107                                       | 78.2 1095                                                                    | 0.06 1                                                          | 718 20165            | 22.4          | 7.981        | 7.980             | 4,417              | 8.93        |                    |             |
| W3B  | -7.32             | 12/12/89        | 1053           |                                  |                     | 3.44 107                                       | 85.2 1193                                                                    | 0.01 0.1                                                        | 737 20699            | 22.4          | 7.943        | 8.522             | 4,717              | 7.95        |                    |             |
| W3B  | -7.32             | 1/11/90         | 1119           |                                  |                     | 2.67 83                                        | 71.7 1004                                                                    | 0.00 0.0                                                        | 744 20896            | 22.6          | 7.963        | 8.670             | 4,799              | 7.87        |                    |             |
| W3B  | -7.32             | 2/14/90         | 1420           |                                  |                     | 3.19 99                                        | 72.0 1008                                                                    | 0.00 0.0                                                        | 701 19688            | 22.6          | 7.890        | 8.072             | 4,468              | 8.02        |                    |             |
| W3B  | -7.32             | 3/7/90          | 1420           |                                  |                     | 2.83 88                                        | 76.5 1072                                                                    | 0.03 0.4                                                        | 645                  | 22.4          | 8.027        | 6.987             | 3,867              | 7.65        |                    |             |
| W3B  | -7.32             | 4/2/90          | 1440           |                                  |                     | 2.92 90                                        | 70.9 993                                                                     | 0.59 8.3                                                        | 687 19295            | 22.8          | 8.043        | 7.711             | 4,268              | 7.53        |                    |             |
| W3B  | -7.32             | 5/17/90         | 1045           |                                  |                     | 3.20 99                                        | 69.6 975                                                                     | 0.10 1.4                                                        | 662 18593            | 22.6          | 7.980        | 8.261             | 4,573              | 7.53        |                    |             |
| W3B  | -7.32             | 6/16/90         | 953            |                                  |                     | 3.47 107                                       | 72.8 1020                                                                    | 0.00 0.0                                                        | 670 18817            | 23.0          | 8.067        | 8.384             | 4,641              | 7.68        |                    |             |
| W3B  | -7.32             | 7/31/90         | 1026           |                                  |                     | 3.63 112                                       | 73.7 1032                                                                    | 0.01 0.1                                                        | 684 19210            | 23.8          | 8.075        | 8.277             | 4,582              | 7.77        |                    |             |
| W3B  | -7.32             | 8/30/90         | 902            |                                  |                     | 3.24 100                                       | 74.7 1046                                                                    | 0.19 2.7                                                        | 681 19126            | 22.9          | 8.050        | 8.556             | 4,736              | 7.49        |                    |             |
| W3B  | -7.32             | 9/6/90          | 1031           |                                  |                     | 3.35 104                                       | 75.5 1057                                                                    | 0.04 0.5                                                        |                      | 23.2          | 8.053        | 8.570             | 4,744              | 7.49        |                    |             |
| W3B  | -7.32             | 10/25/90        | 1027           |                                  |                     | 3.40 105                                       | 73.6 1031                                                                    | 0.03 0.4                                                        | 705 19800            | 23.2          | 8.043        | 8.345             | 4,619              | 7.56        |                    |             |
| W3B  | -7.32             | 11/14/90        | 1044           |                                  |                     | 3.23 100                                       | 76.2 1067                                                                    | 0.08 1.1                                                        | 765 21485            | 23.1          | 8.047        | 8.306             | 4,597              | 7.61        |                    |             |
| W3B  | -7.32             | 12/19/90        | 1030           |                                  |                     | 3.13 97                                        | 76.3 1069                                                                    | 0.13 1.8                                                        | 635 17834            | 23.1          | 8.065        | 8.275             | 4,581              | 7.61        |                    |             |
| W3B  | -7.32             | 1/24/91         | 835            |                                  |                     | 3.10 96                                        | 75.8 1061                                                                    | 0.10 1.4                                                        | 656 18424            | 22.2          | 8.051        | 7.821             | 4,329              | 7.66        |                    |             |
| W3B  | -7.32             | 2/7/91          | 855            |                                  |                     | 2.92 90                                        | 62.0 868                                                                     | 0.57 8.0                                                        | 574 16121            | 22.8          | 8.157        | 6.661             | 3,687              | 7.61        |                    |             |
| W3B  | -7.32             | 3/12/91         | 917            |                                  |                     | 2.93 91                                        | 72.1 1010                                                                    | 0.06 0.8                                                        | 631 17722            | 22.2          | 8.047        | 8.152             | 4,512              | 7.73        |                    |             |
| W3B  | -7.32             | 4/4/91          | 848            |                                  |                     | 2.88 89                                        | 68.6 961                                                                     | 0.13 1.8                                                        | 647 18171            | 22.1          | 8.061        | 8.390             | 4,644              | 7.58        |                    |             |
| W3B  | -7.32             | 5/22/91         | 923            |                                  |                     | 2.91 90                                        | 36.0 504                                                                     | 0.00 0.0                                                        | 770 21626            | 22.3          | 8.053        | 8.322             | 4,606              | 7.57        |                    |             |
| W3B  | -7.32             | 6/26/91         | 932            |                                  |                     | 3.06 95                                        | 79.6 1115                                                                    | 0.00 0.0                                                        | 683 19182            | 22.4          | 8.036        | 8.679             | 4,804              | 7.68        |                    |             |
| W3B  | -7.32             | 7/24/91         | 1002           |                                  |                     | 2.59 80                                        | 56.1 786                                                                     | 0.00 0.0                                                        | 670 18817            | 19.7          | 8.052        | 8.381             | 4,639              | 7.81        |                    |             |
| W3B  | -7.32             | 8/23/91         | 857            |                                  |                     | 3.02 94                                        | 83.3 1167                                                                    | 0.00 0.0                                                        | 703 19744            | 22.6          | 8.012        | 8.362             | 4,629              | 7.84        |                    |             |
| W3B  | -7.32             | 9/24/91         | 851            |                                  |                     | 3.07 95                                        | 77.3 1083                                                                    | 0.00 0.0                                                        | 671 18845            | 22.5          | 8.003        | 8.618             | 4,770              | 7.72        |                    |             |
| W3B  | -7.32             | 10/23/91        | 857            |                                  |                     | 3.04 94                                        | 77.4 1084                                                                    | 0.00 0.0                                                        | 949 26653            | 22.7          | 8.047        | 8.434             | 4,668              | 7.75        |                    |             |
| W3B  | -7.32             | 11/20/91        | 833            |                                  |                     | 3.67 114                                       | 73.3 1027                                                                    | 0.00 0.0                                                        | 792 22244            | 22.8          | 8.042        | 8.311             | 4,600              | 7.89        |                    |             |
| W3B  | -7.32             | 12/11/91        | 915            |                                  |                     | 3.09 96                                        | 78.3 1097                                                                    | 0.00 0.0                                                        | 684 19210            | 22.8          | 8.048        | 8.317             | 4,604              | 7.85        |                    |             |
| W3B  | -7.32             | 1/29/92         | 905            |                                  |                     | 3.11 96                                        | 77.0 1079                                                                    | 0.00 0.0                                                        | 671 18845            | 22.7          | 8.049        | 8.544             | 4,729              | 7.85        |                    |             |
| W3B  | -7.32             | 2/19/92         | 934            |                                  |                     | 3.10 96                                        | 76.5 1072                                                                    | 0.00 0.0                                                        | 630 17694            | 22.7          | 8.059        | 8.482             | 4,695              | 7.93        |                    |             |

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## Well 3B Data Table

6/27/1989 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y)    | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|--------------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 3/17/92            | 846            |                                  |                     | 3.03 94                                        | 76.9 1077                                                                    | 0.00 0.0                                                        | 686 19267            | 22.4          | 8.060        | 8.380             | 4,639              | 8.06        |                    |             |
| W3B  | -7.32             | 4/8/92             | 834            |                                  |                     | 3.15 98                                        | 76.4 1070                                                                    | 0.00 0.0                                                        | 669 18789            | 22.5          | 8.049        | 8.327             | 4,609              | 8.04        |                    |             |
| W3B  | -7.32             | 5/6/92             | 847            |                                  |                     | 3.11 96                                        | 75.8 1062                                                                    | 0.00 0.0                                                        | 724 20334            | 22.4          | 8.037        | 8.448             | 4,676              | 7.97        |                    |             |
| W3B  | -7.32             | 6/23/92            | 846            |                                  |                     | 3.13 97                                        | 76.0 1065                                                                    | 0.07 1.0                                                        | 731 20531            | 22.5          | 8.034        | 8.538             | 4,726              | 8.09        |                    |             |
| W3B  | -7.32             | 7/29/92            | 833            |                                  |                     | 2.96 92                                        | 73.7 1033                                                                    | ND 0.0                                                          | 710 19941            | 22.2          | 8.015        | 8.562             | 4,739              | 7.96        |                    |             |
| W3B  | -7.32             | 8/26/92            | 821            |                                  |                     | 3.31 103                                       | 87.8 1230                                                                    | 0.00 0.0                                                        | 725 20362            | 22.5          | 8.019        | 8.661             | 4,794              | 7.77        |                    |             |
| W3B  | -7.32             | 9/22/92            | 818            |                                  |                     | 3.17 98                                        | 79.5 1114                                                                    | 0.00 0.0                                                        | 731 20531            | 22.6          | 8.040        | 8.538             | 4,726              | 7.83        |                    |             |
| W3B  | -7.32             | 10/27/92           | 841            |                                  |                     | 3.40 105                                       | 80.2 1123                                                                    | 0.00 0.0                                                        | 730 20502            | 22.8          | 8.054        | 8.203             | 4,541              | 7.97        |                    |             |
| W3B  | -7.32             | 11/17/92           | 858            |                                  |                     | 3.16 98                                        | 81.9 1147                                                                    | 0.04 0.6                                                        | 727 20418            | 22.8          | 8.062        | 8.169             | 4,522              | 7.94        |                    |             |
| W3B  | -7.32             | 12/8/92            | 840            |                                  |                     | 3.17 98                                        | 81.1 1136                                                                    | 0.02 0.3                                                        | 729 20474            | 22.7          | 8.047        | 8.392             | 4,645              | 7.87        |                    |             |
| W3B  | -7.32             | 1/26/93            | 855            |                                  |                     | 3.06 95                                        | 76.1 1066                                                                    | 0.11 1.5                                                        | 710 19927            | 22.6          | 8.059        | 8.546             | 4,730              | 7.76        |                    |             |
| W3B  | -7.32             | 2/23/93            | 827            |                                  |                     | 3.01 93                                        | 80.9 1133                                                                    | 0.04 0.6                                                        | 728 20455            | 22.4          | 8.062        | 8.701             | 4,816              | 7.78        |                    |             |
| W3B  | -7.32             | 3/16/93            | 827            |                                  |                     | 3.13 97                                        | 78.8 1104                                                                    | 0.00 0.0                                                        | 726 20390            | 22.3          | 8.056        | 8.745             | 4,841              | 7.83        |                    |             |
| W3B  | -7.32             | 4/27/93            | 832            |                                  |                     | 3.14 97                                        | 82.6 1157                                                                    | 0.07 1.0                                                        | 736 20671            | 22.1          | 8.051        | 8.369             | 4,632              | 7.99        |                    |             |
| W3B  | -7.32             | 5/25/93            | 823            |                                  |                     | 3.16 98                                        | 81.7 1144                                                                    | 0.32 4.5                                                        | 737 20699            | 22.4          | 8.042        | 8.468             | 4,687              | 7.89        |                    |             |
| W3B  | -7.32             | 6/28/93            | 902            |                                  |                     | 3.11 96                                        | 81.6 1143                                                                    | 0.00 0.0                                                        | 729 20474            | 22.5          | 8.044        | 8.435             | 4,669              | 7.92        |                    |             |
| W3B  | -7.32             | 8/9/93             | 845            |                                  |                     | 3.20 99                                        | 80.8 1132                                                                    | 0.00 0.0                                                        | 668 18770            | 22.5          | 8.020        | 8.717             | 4,825              | 7.84        |                    |             |
| W3B  | -7.32             | WELL SET RELOCATED |                |                                  |                     |                                                |                                                                              |                                                                 |                      |               |              |                   |                    |             |                    |             |
| W3B  | -7.32             | 6/21/94            | 817            |                                  |                     | 3.45 107                                       | 84.8 1187                                                                    | 0.17 2.4                                                        | 688 19323            | 22.3          | 8.026        | 8.137             | 4,504              | 7.97        |                    |             |
| W3B  | -7.32             | 8/23/94            | 849            |                                  |                     | 3.46 107                                       | 89.5 1253                                                                    | 0.28 3.9                                                        | 953 26764            | 22.6          | 8.028        | 7.873             | 4,358              | 8.01        |                    |             |
| W3B  | -7.32             | 10/25/94           | 908            |                                  |                     | 3.41 106                                       | 83.2 1165                                                                    | 0.30 4.2                                                        | 683 19185            | 22.1          | 8.038        | 8.032             | 4,446              | 7.94        |                    |             |
| W3B  | -7.32             | 11/28/94           | 1236           |                                  |                     | 3.48 108                                       | 86.2 1208                                                                    | 0.23 3.2                                                        | 680 19087            | 22.9          |              | 8.048             | 4,455              |             |                    |             |
| W3B  | -7.32             | 12/13/94           | 928            |                                  |                     | 3.38 105                                       | 86.7 1215                                                                    | 0.00 0.0                                                        | 726 20379            | 22.7          |              | 8.106             | 4,487              |             |                    |             |
| W3B  | -7.32             | 1/24/95            | 905            |                                  |                     | 3.43 106                                       | 84.1 1178                                                                    | 0.22 3.1                                                        | 670 18820            | 22.5          | 8.056        | 8.429             | 4,666              | 7.86        |                    |             |
| W3B  | -7.32             | 2/14/95            | 848            |                                  |                     | 3.38 105                                       | 84.3 1181                                                                    | 0.20 2.8                                                        | 677 19008            | 22.6          | 8.057        | 8.526             | 4,719              | 7.82        |                    |             |
| W3B  | -7.32             | 3/14/95            | 937            |                                  |                     | 3.38 105                                       | 84.1 1177                                                                    | 0.10 1.4                                                        | 674 18927            | 22.6          | 8.040        | 7.977             | 4,415              | 7.99        |                    |             |
| W3B  | -7.32             | 4/25/95            | 1004           |                                  |                     | 3.42 106                                       | 84.9 1188                                                                    | 0.17 2.4                                                        | 713 20022            | 22.1          | 8.055        | 7.916             | 4,382              | 8.02        |                    |             |
| W3B  | -7.32             | 5/9/95             | 850            |                                  |                     | 3.40 105                                       | 84.6 1185                                                                    | 0.08 1.1                                                        | 714 20039            | 22.4          | 8.020        | 7.663             | 4,242              | 7.95        |                    |             |
| W3B  | -7.32             | 6/27/95            | 907            |                                  |                     | 3.33 103                                       | 85.0 1190                                                                    | 0.28 3.9                                                        | 681 19121            | 22.6          | 8.036        | 7.905             | 4,376              | 8.10        |                    |             |
| W3B  | -7.32             | 7/25/95            | 922            |                                  |                     | 3.28 102                                       | 85.1 1192                                                                    | 0.22 3.1                                                        | 691 19413            | 22.7          | 8.015        | 7.960             | 4,406              | 7.82        |                    |             |
| W3B  | -7.32             | 8/22/95            | 1010           |                                  |                     | 3.26 101                                       | 84.2 1179                                                                    | 0.27 3.8                                                        | 694 19477            | 22.8          | 8.020        | 7.997             | 4,427              | 7.78        |                    |             |
| W3B  | -7.32             | 9/12/95            | 752            |                                  |                     | 3.38 105                                       | 85.4 1196                                                                    | 0.09 1.3                                                        | 691 19399            | 20.5          | 8.072        | 7.990             | 4,423              | 7.81        |                    |             |
| W3B  | -7.32             | 10/17/95           | 926            |                                  |                     | 3.41 106                                       | 83.0 1163                                                                    | 0.19 2.7                                                        | 695 19522            | 22.9          | 8.051        | 8.191             | 4,534              | 7.78        |                    |             |
| W3B  | -7.32             | 11/7/95            | 846            |                                  |                     | 3.53 109                                       | 86.0 1205                                                                    | 0.17 2.4                                                        | 688 19331            | 22.8          | 8.081        | 7.990             | 4,423              | 7.83        |                    |             |
| W3B  | -7.32             | 12/6/95            | 855            |                                  |                     | 3.32 103                                       | 84.4 1182                                                                    | 0.16 2.2                                                        | 689 19337            | 23.0          | 8.085        | 8.249             | 4,566              | 7.75        |                    |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

~~6/27/1999~~ ~~6/30/2025~~

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 6/17/96         | 931            |                                  |                     | 3.23 100                                       | 85.0 1191                                                                    | 0.02 0.3                                                        | 690 19385            | 22.7          | 8.104        | 8.152             | 4,512              | 7.79        |                    |             |
| W3B  | -7.32             | 2/27/96         | 941            |                                  |                     | 3.25 101                                       | 82.0 1148                                                                    | 0.07 1.0                                                        | 686 19255            | 23.1          | 8.054        | 7.975             | 4,414              | 7.81        |                    |             |
| W3B  | -7.32             | 3/13/96         | 1011           |                                  |                     | 3.13 97                                        | 79.0 1107                                                                    | 0.15 2.1                                                        | 661 18569            | 23.2          | 8.030        | 7.358             | 4,073              | 7.92        |                    |             |
| W3B  | -7.32             | 4/2/96          | 826            |                                  |                     | 3.25 101                                       | 80.3 1125                                                                    | 0.06 0.8                                                        | 665 18679            | 22.7          | 8.003        | 7.811             | 4,324              | 7.89        |                    |             |
| W3B  | -7.32             | 5/15/96         | 939            |                                  |                     | 3.37 104                                       | 83.4 1167                                                                    | 0.20 2.8                                                        | 672 18875            | 23.8          | 8.002        | 8.154             | 4,513              | 7.73        |                    |             |
| W3B  | -7.32             | 6/18/96         | 905            |                                  |                     | 3.34 103                                       | 84.7 1187                                                                    | 0.11 1.5                                                        | 717 20150            | 23.0          | 8.034        | 8.202             | 4,540              | 7.81        |                    |             |
| W3B  | -7.32             | 7/17/96         | 938            |                                  |                     | 3.33 103                                       | 87.3 1223                                                                    | 0.14 2.0                                                        | 729 20486            | 23.2          | 8.046        | 7.916             | 4,382              | 7.90        |                    |             |
| W3B  | -7.32             | 8/6/96          | 947            |                                  |                     | 3.29 102                                       | 87.8 1230                                                                    | 0.15 2.1                                                        | 684 19218            | 23.4          | 8.034        | 8.023             | 4,441              | 7.82        |                    |             |
| W3B  | -7.32             | 9/4/96          | 1000           |                                  |                     | 3.39 105                                       | 89.8 1258                                                                    | 0.17 2.4                                                        | 711 19976            | 23.5          | 8.039        | 7.837             | 4,338              | 7.84        |                    |             |
| W3B  | -7.32             | 10/9/96         | 948            |                                  |                     | 3.37 104                                       | 91.5 1281                                                                    | 0.17 2.4                                                        | 681 19113            | 23.4          | 8.045        | 7.375             | 4,082              | 8.43        |                    |             |
| W3B  | -7.32             | 11/6/96         | 934            |                                  |                     | 3.34 103                                       | 92.0 1289                                                                    | 0.14 2.0                                                        | 699 19627            | 23.4          | 7.827        | 7.489             | 4,145              | 8.01        |                    |             |
| W3B  | -7.32             | 12/17/96        | 1002           |                                  |                     | 3.24 100                                       | 86 1200                                                                      | 0.20 2.8                                                        | 666 18702            | 22.8          | 8.008        | 7.864             | 4,353              | 7.94        |                    |             |
| W3B  | -7.32             | 1/14/97         | 1025           |                                  |                     | 2.82 87                                        | 75 1057                                                                      | 0.03 0.4                                                        | 629 17671            | 23.7          | 8.039        | 6.519             | 3,608              | 7.94        |                    |             |
| W3B  | -7.32             | 2/10/97         | 1105           |                                  |                     | 3.00 93                                        | 79 1112                                                                      | 0.13 1.8                                                        | 651 18278            | 24.1          | 8.020        | 6.812             | 3,771              | 7.91        |                    |             |
| W3B  | -7.32             | 3/10/97         | 1112           |                                  |                     | 3.04 94                                        | 84 1178                                                                      | 0.03 0.4                                                        | 682 19154            | 23.5          | 8.035        | 7.200             | 3,985              | 7.97        |                    |             |
| W3B  | -7.32             | 4/23/97         | 933            |                                  |                     | 3.20 99                                        | 85 1196                                                                      | 0.13 1.8                                                        | 570 16009            | 23.0          | 8.041        | 7.284             | 4,032              | 7.59        |                    |             |
| W3B  | -7.32             | 5/28/97         | 841            |                                  |                     | 3.27 101                                       | 91 1270                                                                      | 0.04 0.6                                                        | 599 16822            | 23.1          | 8.055        | 7.390             | 4,091              | 7.88        |                    |             |
| W3B  | -7.32             | 6/17/97         | 940            |                                  |                     | 3.23 100                                       | 84 1178                                                                      | 0.15 2.1                                                        | 624 17520            | 22.4          | 8.053        | 7.245             | 4,010              | 7.83        |                    |             |
| W3B  | -7.32             | 7/15/97         | 931            |                                  |                     | 3.38 105                                       | 94 1314                                                                      | 0.05 0.7                                                        | 692 19435            | 23.1          | 8.045        | 7.097             | 3,928              | 7.89        |                    |             |
| W3B  | -7.32             | 8/26/97         | 945            |                                  |                     | 3.25 101                                       | 93 1307                                                                      | 0.19 2.7                                                        | 687 19284            | 23.3          | 8.112        | 7.209             | 3,990              | 7.85        |                    |             |
| W3B  | -7.32             | 9/23/97         | 1140           |                                  |                     | 3.26 101                                       | 90 1259                                                                      | 0.26 3.6                                                        | 673 18910            | 23.8          | 8.138        | 7.710             | 4,268              | 7.61        |                    |             |
| W3B  | -7.32             | 10/15/97        | 908            |                                  |                     | 3.21 99                                        | 98.8 1384                                                                    | 0.03 0.4                                                        | 670 18817            | 23.3          | 8.147        | 6.770             | 3,747              | 7.86        |                    |             |
| W3B  | -7.32             | 11/4/97         | 1025           |                                  |                     | 3.30 102                                       | 94.0 1317                                                                    | 0.04 0.6                                                        | 669 18792            | 23.3          | 8.158        | 7.590             | 4,201              | 7.57        |                    |             |
| W3B  | -7.32             | 12/16/97        | 942            |                                  |                     | 3.31 103                                       | 86.9 1217                                                                    | 0.01 0.1                                                        | 675 18949            | 23.1          | 8.154        | 7.676             | 4,249              | 7.87        |                    |             |
| W3B  | -7.32             | 1/5/98          | 1221           |                                  |                     | 3.31 103                                       | 88.5 1240                                                                    | 0.06 0.8                                                        | 671 18844            | 23.1          | 8.167        | 7.734             | 4,281              | 7.86        |                    |             |
| W3B  | -7.32             | 2/3/98          | 1038           |                                  |                     | 3.26 101                                       | 84.9 1189                                                                    | 0.05 0.7                                                        | 684 19208            | 22.9          | 8.145        | 7.915             | 4,381              | 7.88        |                    |             |
| W3B  | -7.32             | 3/10/98         | 1054           |                                  |                     | 3.43 106                                       | 86 1201                                                                      | 0.05 0.7                                                        | 676 18985            | 22.8          | 8.017        | 8.102             | 4,485              | 7.90        |                    |             |
| W3B  | -7.32             | 4/14/98         | 920            |                                  |                     | 3.46 107                                       | 87 1214                                                                      | 0.03 0.4                                                        | 681 19129            | 22.6          | 8.035        | 8.024             | 4,441              | 7.93        |                    |             |
| W3B  | -7.32             | 5/12/98         | 1045           |                                  |                     | 3.44 107                                       | 85.6 1199                                                                    | 0.09 1.3                                                        | 672 18885            | 22.9          | 8.029        | 8.416             | 4,658              | 7.84        |                    |             |
| W3B  | -7.32             | 6/2/98          | 1038           |                                  |                     | 3.41 106                                       | 85 1184                                                                      | 0.05 0.7                                                        | 668 18770            | 22.6          | 8.024        | 8.743             | 4,839              | 7.81        |                    |             |
| W3B  | -7.32             | 7/14/98         | 1048           |                                  |                     | 3.41 106                                       | 81.6 1142                                                                    | 0.09 1.3                                                        | 677 19022            | 22.8          | 8.021        | 8.423             | 4,662              | 7.77        |                    |             |
| W3B  | -7.32             | 8/11/98         | 1107           |                                  |                     | 3.48 108                                       | 85.7 1200                                                                    | 0.07 1.0                                                        | 682 19143            | 22.7          | 8.007        | 8.335             | 4,614              | 7.69        |                    |             |
| W3B  | -7.32             | 9/15/98         | 1141           |                                  |                     | 3.48 108                                       | 87.1 1220                                                                    | 0.07 1.0                                                        | 684 19208            | 22.9          | 8.008        | 8.047             | 4,454              | 8.05        |                    |             |
| W3B  | -7.32             | 10/13/98        | 1015           |                                  |                     | 3.46 107                                       | 88.8 1244                                                                    | 0.04 0.6                                                        | 695 19517            | 23.0          | 8.025        | 7.793             | 4,314              | 8.62        |                    |             |
| W3B  | -7.32             | 11/4/98         | 1048           |                                  |                     | 3.40 105                                       | 86.9 1217                                                                    | 0.11 1.5                                                        | 722 20269            | 23.1          | 8.022        | 8.078             | 4,471              | 7.88        |                    |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1999 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 12/16/98        | 1028           |                                  |                     | 3.41 106                                       | 84 1171                                                                      | 0.08 1.1                                                        | 679 19056            | 23.1          | 8.013        | 8.628             | 4,776              | 7.79        |                    |             |
| W3B  | -7.32             | 1/12/99         | 1103           |                                  |                     | 3.29 102                                       | 82 1154                                                                      | 0.04 0.6                                                        | 680 19107            | 23.2          | 8.015        | 8.610             | 4,766              | 7.89        |                    |             |
| W3B  | -7.32             | 2/3/99          | 1051           |                                  |                     | 2.80 87                                        | 82.7 1158                                                                    | 0.12 1.7                                                        | 669 18784            | 23.0          | 8.002        | 9.005             | 4,985              | 7.81        |                    |             |
| W3B  | -7.32             | 3/2/99          | 1059           |                                  |                     | 3.34 103                                       | 78.8 1104                                                                    | 0.14 2.0                                                        | 664 18654            | 22.7          | 8.004        | 9.055             | 5,012              | 8.54        |                    |             |
| W3B  | -7.32             | 4/6/99          | 1049           |                                  |                     | 3.26 101                                       | 83.5 1170                                                                    | 0.06 0.8                                                        | 686 19269            | 22.8          | 8.026        | 8.279             | 4,583              | 8.03        |                    |             |
| W3B  | -7.32             | 5/4/99          | 1054           |                                  |                     | 3.27 101                                       | 77.5 1086                                                                    | 0.11 1.5                                                        | 664 18635            | 22.6          | 8.001        | 8.883             | 4,917              | 7.81        |                    |             |
| W3B  | -7.32             | 6/2/99          | 1038           |                                  |                     | 3.37 104                                       | 83.5 1170                                                                    | 0.06 0.8                                                        | 731 20531            | 23.0          | 8.021        | 8.325             | 4,608              | 7.89        |                    |             |
| W3B  | -7.32             | 7/7/99          | 1111           |                                  |                     | 3.37 104                                       | 79.2 1109                                                                    | 0.04 0.6                                                        | 685 19244            | 23.1          | 8.005        | 8.723             | 4,828              | 7.84        |                    |             |
| W3B  | -7.32             | 8/25/99         | 1044           |                                  |                     | 3.37 104                                       | 84.9 1189                                                                    | 0.09 1.3                                                        | 688 19328            | 23.0          | 8.063        | 8.269             | 4,577              | 8.01        |                    |             |
| W3B  | -7.32             | 9/8/99          | 1047           |                                  |                     | 3.40 105                                       | 88.4 1238                                                                    | 0.07 1.0                                                        | 699 19618            | 23.0          | 8.088        | 8.207             | 4,543              | 7.97        |                    |             |
| W3B  | -7.32             | 10/6/99         | 1052           |                                  |                     | 3.47 107                                       | 84.3 1180                                                                    | 0.06 0.8                                                        | 656 18413            | 23.0          | 8.062        | 8.182             | 4,529              | 7.94        |                    |             |
| W3B  | -7.32             | 11/3/99         | 1106           |                                  |                     | 3.31 103                                       | 81.2 1137                                                                    | 0.02 0.3                                                        | 677 19011            | 23.3          | 8.071        | 8.394             | 4,646              | 7.89        |                    |             |
| W3B  | -7.32             | 12/15/99        | 1123           |                                  |                     | 3.37 104                                       | 83.8 1174                                                                    | 0.09 1.3                                                        | 692 19432            | 23.0          | 8.039        | 7.988             | 4,422              | 7.61        |                    |             |
| W3B  | -7.32             | 1/11/00         | 1058           |                                  |                     | 3.30 102                                       | 85.4 1196                                                                    | 0.07 1.0                                                        | 679 19078            | 23.0          | 8.016        | 8.885             | 4,918              | 7.62        |                    |             |
| W3B  | -7.32             | 2/14/00         | 1115           |                                  |                     | 3.35 104                                       | 81.8 1146                                                                    | 0.09 1.3                                                        | 641 17992            | 22.7          | 8.053        | 8.799             | 4,870              | 7.70        |                    |             |
| W3B  | -7.32             | 3/22/00         | 1125           |                                  |                     | 3.11 96                                        | 82.0 1149                                                                    | 0.16 2.2                                                        | 686 19267            | 22.5          | 8.062        | 8.742             | 4,839              | 7.78        |                    |             |
| W3B  | -7.32             | 4/12/00         | 1108           |                                  |                     | 3.39 105                                       | 81.9 1147                                                                    | 0.07 1.0                                                        | 678 19048            | 22.8          | 8.052        | 8.907             | 4,930              | 7.74        |                    |             |
| W3B  | -7.32             | 5/17/00         | 1045           |                                  |                     | 3.30 102                                       | 82.5 1156                                                                    | 0.16 2.2                                                        | 680 19101            | 22.6          | 8.061        | 8.576             | 4,747              | 7.85        |                    |             |
| W3B  | -7.32             | 6/6/00          | 1123           |                                  |                     | 3.28 102                                       | 85.4 1196                                                                    | 0.15 2.1                                                        | 680 19101            | 22.8          | 8.051        | 8.540             | 4,727              | 7.85        |                    |             |
| W3B  | -7.32             | 7/31/00         | 1112           |                                  |                     | 3.28 102                                       | 79.8 1118                                                                    | 0.10 1.4                                                        | 652 18312            | 22.9          | 8.049        | 9.098             | 5,036              | 7.63        |                    |             |
| W3B  | -7.32             | 8/30/00         | 1117           |                                  |                     | 3.32 103                                       | 83.3 1167                                                                    | 0.26 3.6                                                        | 685 19241            | 22.8          | 8.029        | 8.482             | 4,695              | 7.77        |                    |             |
| W3B  | -7.32             | 9/6/00          | 1056           |                                  |                     | 3.30 102                                       | 83.0 1163                                                                    | 0.12 1.7                                                        | 689 19357            | 23.2          | 8.034        | 8.275             | 4,580              | 7.81        |                    |             |
| W3B  | -7.32             | 10/25/00        | 1033           |                                  |                     | 3.34 103                                       | 81.6 1143                                                                    | 0.35 4.9                                                        | 706 19831            | 23.3          | 8.029        | 8.334             | 4,613              | 7.49        |                    |             |
| W3B  | -7.32             | 11/14/00        | 1047           |                                  |                     | 2.90 90                                        | 74.7 1046                                                                    | 0.15 2.1                                                        | 640 17978            | 23.5          | 8.033        | 7.347             | 4,067              | 7.54        |                    |             |
| W3B  | -7.32             | 12/19/00        | 1038           |                                  |                     | 3.18 98                                        | 80.7 1130                                                                    | 0.23 3.2                                                        | 677 19000            | 23.1          | 8.028        | 8.360             | 4,627              | 7.46        |                    |             |
| W3B  | -7.32             | 1/24/01         | 1032           |                                  |                     | 3.38 105                                       | 83.5 1170                                                                    | 0.06 0.8                                                        | 688 19334            | 23.2          | 8.025        | 8.298             | 4,593              | 7.41        |                    |             |
| W3B  | -7.32             | 2/7/01          | 1101           |                                  |                     | 3.18 98                                        | 81.5 1142                                                                    | 0.07 1.0                                                        | 683 19168            | 23.0          | 8.035        | 8.631             | 4,777              | 7.26        |                    |             |
| W3B  | -7.32             | 3/12/01         | 1046           |                                  |                     | 3.28 102                                       | 74.5 1043                                                                    | 0.06 0.8                                                        | 666 18716            | 23.1          | 7.995        | 8.654             | 4,790              | 7.26        |                    |             |
| W3B  | -7.32             | 4/18/01         | 1038           |                                  |                     | 3.30 102                                       | 82.8 1160                                                                    | 0.01 0.1                                                        | 682 19143            | 23.0          | 7.991        | 8.594             | 4,757              | 7.92        |                    |             |
| W3B  | -7.32             | 5/14/01         | 914            |                                  |                     | 4.91 152                                       | 84.7 1186                                                                    | 0.07 1.0                                                        | 693 19472            | 22.9          | 8.003        | 8.713             | 4,823              | 7.86        |                    |             |
| W3B  | -7.32             | 6/13/01         | 1055           |                                  |                     | 3.54 110                                       | 84.7 1187                                                                    | 0.06 0.8                                                        | 692 19441            | 22.8          | 8.020        | 8.413             | 4,657              | 8.00        |                    |             |
| W3B  | -7.32             | 7/25/01         | 1015           |                                  |                     | 3.57 111                                       | 87.3 1222                                                                    | 0.08 1.1                                                        | 677 19014            | 22.9          | 8.004        | 8.543             | 4,729              | 7.89        |                    |             |
| W3B  | -7.32             | 8/20/01         | 1009           |                                  |                     | 3.30 102                                       | 86.6 1213                                                                    | 0.10 1.4                                                        | 684 19219            | 23.5          | 8.017        | 8.462             | 4,684              | 7.79        |                    |             |
| W3B  | -7.32             | 9/18/01         | 1047           |                                  |                     | 3.36 104                                       | 88.2 1235                                                                    | 0.11 1.5                                                        | 683 19174            | 23.4          | 8.014        | 8.098             | 4,482              | 7.83        |                    |             |
| W3B  | -7.32             | 10/9/01         | 1038           |                                  |                     | 3.55 110                                       | 89.5 1254                                                                    | 0.05 0.7                                                        | 685 19244            | 23.4          | 8.009        | 8.076             | 4,470              | 7.92        |                    |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1999 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 11/6/01         | 1005           |                                  |                     | 3.32 103                                       | 92.7 1298                                                                    | 0.17 2.4                                                        | 693 19469            | 23.2          | 8.020        | 8.142             | 4,507              | 7.92        |                    |             |
| W3B  | -7.32             | 12/18/01        | 1000           |                                  |                     | 2.81 87                                        | 86.5 1212                                                                    | 0.09 1.3                                                        | 674 18938            | 23.5          | 7.999        | 8.234             | 4,558              | 7.78        |                    |             |
| W3B  | -7.32             | 1/8/02          | 1014           |                                  |                     | 3.24 100                                       | 86.2 1207                                                                    | 0.11 1.5                                                        | 673 18913            | 23.2          | 8.010        | 8.231             | 4,556              | 7.50        |                    |             |
| W3B  | -7.32             | 2/27/02         | 1013           |                                  |                     | 3.34 103                                       | 89.0 1246                                                                    | 0.10 1.4                                                        | 694 19497            | 23.0          | 8.597        | 8.402             | 4,651              | 7.43        |                    |             |
| W3B  | -7.32             | 3/19/02         | 1020           |                                  |                     | 2.90 90                                        | 78.4 1099                                                                    | 0.09 1.3                                                        | 629 17671            | 22.7          | 8.040        | 7.287             | 4,034              | 7.49        |                    |             |
| W3B  | -7.32             | 4/9/02          | 1012           |                                  |                     | 3.34 103                                       | 85.5 1198                                                                    | 0.07 1.0                                                        | 664 18638            | 22.9          | 7.987        | 7.825             | 4,331              | 7.43        |                    |             |
| W3B  | -7.32             | 5/21/02         | 1015           |                                  |                     | 3.20 99                                        | 85.0 1190                                                                    | 0.08 1.1                                                        | 670 18826            | 23.1          | 8.011        | 8.202             | 4,540              | 7.94        |                    |             |
| W3B  | -7.32             | 6/18/02         | 1028           |                                  |                     | 3.33 103                                       | 89.7 1257                                                                    | 0.26 3.6                                                        | 681 19135            | 22.8          | 8.010        | 8.475             | 4,691              | 8.84        |                    |             |
| W3B  | -7.32             | 7/17/02         | 1006           |                                  |                     | 3.18 98                                        | 89.2 1249                                                                    | 0.09 1.3                                                        | 668 18764            | 23.0          | 8.015        | 8.770             | 4,854              | 7.70        |                    |             |
| W3B  | -7.32             | 8/22/02         | 1024           |                                  |                     | 3.38 105                                       | 87.4 1224                                                                    | 0.13 1.8                                                        | 682 19154            | 23.0          | 8.019        | 8.297             | 4,593              | 7.85        |                    |             |
| W3B  | -7.32             | 9/24/02         | 1059           |                                  |                     | 3.30 102                                       | 91.3 1279                                                                    | 0.11 1.5                                                        | 691 19404            | 23.4          | 8.047        | 8.324             | 4,608              | 7.92        |                    |             |
| W3B  | -7.32             | 10/16/02        | 1039           |                                  |                     | 3.13 97                                        | 92.7 1299                                                                    | 0.13 1.8                                                        | 666 18705            | 23.4          | 8.024        | 7.664             | 4,242              | 7.93        |                    |             |
| W3B  | -7.32             | 11/6/02         | 1024           |                                  |                     | 3.26 101                                       | 93.5 1309                                                                    | 0.12 1.7                                                        | 664 18657            | 23.6          | 8.007        | 7.792             | 4,313              | 7.88        |                    |             |
| W3B  | -7.32             | 12/19/02        | 1112           |                                  |                     | 3.28 102                                       | 89.1 1248                                                                    | 0.08 1.1                                                        | 674 18927            | 23.5          | 8.017        | 8.370             | 4,633              | 7.81        |                    |             |
| W3B  | -7.32             | 1/22/03         | 1102           |                                  |                     | 3.32 103                                       | 85.1 1192                                                                    | 0.28 3.9                                                        | 668 18758            | 23.1          | 8.023        | 8.559             | 4,738              | 7.91        |                    |             |
| W3B  | -7.32             | 2/20/03         | 1015           |                                  |                     | 3.10 96                                        | 87.0 1218                                                                    | 0.16 2.2                                                        | 665 18680            | 23.5          | 8.019        | 8.627             | 4,775              | 7.81        |                    |             |
| W3B  | -7.32             | 3/18/03         | 954            |                                  |                     | 3.30 102                                       | 85.8 1202                                                                    | 0.06 0.8                                                        | 674 18930            | 23.1          | 8.029        | 8.573             | 4,745              | 7.82        |                    |             |
| W3B  | -7.32             | 4/29/03         | 1010           |                                  |                     | 3.47 107                                       | 90.7 1271                                                                    | 0.42 5.9                                                        | 675 18961            | 23.2          | 8.051        | 8.183             | 4,530              | 7.94        |                    |             |
| W3B  | -7.32             | 5/13/03         | 1037           |                                  |                     | 3.48 108                                       | 87.7 1228                                                                    | 0.62 8.7                                                        | 680 19084            | 23.0          | 8.064        | 7.972             | 4,413              | 8.02        |                    |             |
| W3B  | -7.32             | 6/5/03          | 1005           |                                  |                     | 3.39 105                                       | 85.2 1193                                                                    | 0.38 5.3                                                        | 670 18814            | 23.0          | 8.060        | 8.337             | 4,615              | 7.97        |                    |             |
| W3B  | -7.32             | 7/31/03         | 1025           |                                  |                     | 3.27 101                                       | 94.4 1322                                                                    | 0.27 3.8                                                        | 674 18927            | 23.5          | 8.026        | 8.537             | 4,725              | 7.31        |                    |             |
| W3B  | -7.32             | 8/27/03         | 1043           |                                  |                     | 3.38 105                                       | 95.6 1339                                                                    | 0.70 9.8                                                        | 680 19101            | 23.3          | 8.029        | 8.132             | 4,501              | 8.14        |                    |             |
| W3B  | -7.32             | 9/17/03         | 1010           |                                  |                     | 3.46 107                                       | 96.6 1352                                                                    | 0.35 4.9                                                        | 690 19368            | 23.4          | 8.036        | 7.900             | 4,373              | 8.22        |                    |             |
| W3B  | -7.32             | 10/7/03         | 1011           |                                  |                     | 3.38 105                                       | 96.7 1355                                                                    | 1.11 15.5                                                       | 687 19286            | 23.5          | 8.027        | 8.098             | 4,482              | NA          |                    |             |
| W3B  | -7.32             | 11/4/03         | 952            |                                  |                     | 3.32 103                                       | 90.3 1265                                                                    | 0.44 6.2                                                        | 688 19314            | 23.3          | 8.051        | 8.179             | 4,527              |             |                    |             |
| W3B  | -7.32             | 11/14/03        | 1127           |                                  |                     |                                                |                                                                              |                                                                 |                      | 23.7          |              |                   |                    | 8.02        |                    |             |
| W3B  | -7.32             | 12/16/03        | 949            |                                  |                     | 3.28 102                                       | 94.5 1324                                                                    | 0.40 5.6                                                        | 701 19677            | 23.5          | 8.025        | 8.489             | 4,699              | 7.90        |                    |             |
| W3B  | -7.32             | 1/27/04         | 1010           |                                  |                     | 3.10 96                                        | 89.3 1251                                                                    | 0.12 1.7                                                        | 660 18525            | 23.2          | 8.040        | 8.147             | 4,510              | 7.53        |                    |             |
| W3B  | -7.32             | 2/10/04         | 1007           |                                  |                     | 3.14 97                                        | 88.6 1241                                                                    | 0.15 2.1                                                        | 630 17697            | 23.7          | 8.006        | 8.172             | 4,523              | 7.83        |                    |             |
| W3B  | -7.32             | 3/15/04         | 1011           |                                  |                     | 2.88 89                                        | 78.9 1106                                                                    | 0.07 1.0                                                        | 617 17320            | 23.4          | 8.059        | 6.319             | 3,498              | 7.60        |                    |             |
| W3B  | -7.32             | 4/21/04         | 922            |                                  |                     | 3.14 97                                        | 91.6 1283                                                                    | 0.02 0.3                                                        | 663 18623            | 22.9          | 8.034        | 7.700             | 4,262              | 7.88        |                    |             |
| W3B  | -7.32             | 5/12/04         | 917            |                                  |                     | 3.14 97                                        | 94.3 1321                                                                    | 0.09 1.3                                                        | 663 18626            | 23.3          | 8.051        | 7.58              | 4,196              | 8.09        |                    |             |
| W3B  | -7.32             | 6/7/04          | 952            |                                  |                     | 3.20 99                                        | 95.5 1338                                                                    | 0.18 2.5                                                        | 653 18337            | 23.0          | 8.043        | 7.49              | 4,146              | 7.99        |                    |             |
| W3B  | -7.32             | 7/8/04          | 1022           |                                  |                     | 3.16 98                                        | 90.5 1267                                                                    | 0.08 1.1                                                        | 676 18977            | 23.1          | 8.097        | 7.90              | 4,373              | 7.73        |                    |             |
| W3B  | -7.32             | 8/24/04         | 950            |                                  |                     | 3.14 97                                        | 94.7 1327                                                                    | 0.10 1.4                                                        | 653 18351            | 23.6          | 8.048        | 7.32              | 4,052              | 7.86        |                    |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1999 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 9/28/04         | 1005           |                                  |                     | 3.42 106                                       | 106 1483                                                                     | 0.20 2.8                                                        | 719 20179            | 23.5          | 8.023        | 7.57              | 4,190              | 7.86        |                    |             |
| W3B  | -7.32             | 10/5/04         | 1055           |                                  |                     | 3.16 98                                        | 101 1419                                                                     | 0.13 1.8                                                        | 676 18972            | 23.6          | 8.046        | 7.74              | 4,284              | 7.82        |                    |             |
| W3B  | -7.32             | 11/8/04         | 946            |                                  |                     | 3.34 103                                       | 94.5 1323                                                                    | 0.19 2.7                                                        | 679 19064            | 23.6          | 8.054        | 7.79              | 4,312              | 7.86        |                    |             |
| W3B  | -7.32             | 12/7/04         | 957            |                                  |                     | 3.20 99                                        | 101 1420                                                                     | 0.16 2.2                                                        | 673 18899            | 23.7          | 8.086        | 7.34              | 4,063              | 7.89        |                    |             |
| W3B  | -7.32             | 1/11/05         | 945            |                                  |                     | 2.94 91                                        | 86.4 1210                                                                    | 0.08 1.1                                                        | 662 18579            | 23.7          | 8.115        | 7.144             | 3,954              | 7.83        |                    |             |
| W3B  | -7.32             | 2/8/05          | 945            |                                  |                     | 2.78 86                                        | 83.7 1172                                                                    | 0.20 2.8                                                        | 626 17582            | 23.5          | 8.112        | 6.373             | 3,528              | 7.89        |                    |             |
| W3B  | -7.32             | 3/16/05         | 1028           |                                  |                     | 3.01 93                                        | 99.4 1392                                                                    | 0.20 2.8                                                        | 640 17974            | 23.3          | 8.079        | 7.300             | 4,041              | 7.83        |                    |             |
| W3B  | -7.32             | 4/18/05         | 1036           |                                  |                     | 3.26 101                                       | 91.3 1279                                                                    | 0.11 1.5                                                        | 675 18963            | 23.4          | 8.083        | 7.553             | 4,181              | 7.91        |                    |             |
| W3B  | -7.32             | 5/24/05         | 953            |                                  |                     | 3.18 98                                        | 99.5 1394                                                                    | 0.18 2.5                                                        | 672 18876            | 23.3          | 8.012        | 8.068             | 4,466              | 7.80        |                    |             |
| W3B  | -7.32             | 6/13/05         | 1014           |                                  |                     | 3.26 101                                       | 95.9 1344                                                                    | 0.18 2.5                                                        | 677 19020            | 23.3          | 8.045        | 8.080             | 4,472              | 7.78        |                    |             |
| W3B  | -7.32             | 7/11/05         | 1015           |                                  |                     | 3.47 107                                       | 91.4 1280                                                                    | 0.16 2.2                                                        | 673 18890            | 23.1          | 8.049        | 7.541             | 4,174              | 10.60       |                    |             |
| W3B  | -7.32             | 8/10/05         | 930            |                                  |                     | 3.32 103                                       | 89.0 1246                                                                    | 0.16 2.2                                                        | 670 18809            | 23.3          | 8.053        | 7.869             | 4,356              | 7.81        |                    |             |
| W3B  | -7.32             | 9/21/05         | 923            |                                  |                     | 3.30 102                                       | 96.1 1347                                                                    | 0.12 1.7                                                        | 665 18668            | 23.5          | 8.054        | 8.058             | 4,460              | 7.81        |                    |             |
| W3B  | -7.32             | 10/18/05        | 948            |                                  |                     | 3.36 104                                       | 94.0 1316                                                                    | 0.14 2.0                                                        | 668 18770            | 23.4          | 8.038        | 8.112             | 4,490              | 7.77        |                    |             |
| W3B  | -7.32             | 11/3/05         | 908            |                                  |                     | 3.38 105                                       | 97.7 1369                                                                    | 0.18 2.5                                                        | 685 19241            | 23.3          | 8.052        | 8.239             | 4,561              | 7.58        |                    |             |
| W3B  | -7.32             | 12/21/05        | 1020           |                                  |                     | 3.34 103                                       | 91.4 1281                                                                    | 0.14 2.0                                                        | 674 18938            | 23.4          | 8.076        | 8.277             | 4,582              | 7.83        |                    |             |
| W3B  | -7.32             | 1/24/06         | 927            |                                  |                     | 3.42 106                                       | 94.2 1319                                                                    | 0.14 2.0                                                        | 679 19076            | 22.9          | 8.042        | 8.431             | 4,667              | 7.79        |                    |             |
| W3B  | -7.32             | 2/15/06         | 925            |                                  |                     | 3.37 104                                       | 93.0 1302                                                                    | 0.16 2.2                                                        | 667 18741            | 23.0          | 8.046        | 8.651             | 4,789              | 7.76        |                    |             |
| W3B  | -7.32             | 3/21/06         | 918            |                                  |                     | 3.26 101                                       | 94.0 1317                                                                    | 0.10 1.4                                                        | 674 18930            | 22.7          | 8.065        | 8.566             | 4,742              | 7.77        |                    |             |
| W3B  | -7.32             | 4/26/06         | 933            |                                  |                     | 3.30 102                                       | 91.2 1278                                                                    | 0.05 0.7                                                        | 663 18621            | 22.6          | 8.046        | 8.31              | 4,600              | 7.76        |                    |             |
| W3B  | -7.32             | 5/23/06         | 1003           |                                  |                     | 2.99 93                                        | 90.0 1261                                                                    | 0.05 0.7                                                        | 660 18536            | 22.8          | 8.035        | 8.686             | 4,808              | 7.61        |                    |             |
| W3B  | -7.32             | 6/27/06         | 1000           |                                  |                     | 3.33 103                                       | 94.1 1318                                                                    | 0.21 2.9                                                        | 670 18817            | 22.9          | 8.027        | 8.661             | 4,794              | 7.73        |                    |             |
| W3B  | -7.32             | 7/18/06         | 959            |                                  |                     | 3.25 101                                       | 87.1 1220                                                                    | 0.11 1.5                                                        | 661 18565            | 23            | 8.014        | 9.001             | 4,982              | 8.16        |                    |             |
| W3B  | -7.32             | 8/8/06          | 939            |                                  |                     | 3.16 98                                        | 93.0 1303                                                                    | 0.05 0.7                                                        | 671 18845            | 22.9          | 8.031        | 8.304             | 4,596              | 8.11        |                    |             |
| W3B  | -7.32             | 9/19/06         | 1036           |                                  |                     | 3.25 101                                       | 90.5 1268                                                                    | 0.07 1.0                                                        | 668 18761            | 23.6          | 8.023        | 8.347             | 4,620              | 8.06        |                    |             |
| W3B  | -7.32             | 10/24/06        | 1015           |                                  |                     | 3.12 97                                        | 84.3 1181                                                                    | 0.23 3.2                                                        | 639 17947            | 23.2          | 8.057        | 7.175             | 3,972              | 8.05        |                    |             |
| W3B  | -7.32             | 11/28/06        | 954            |                                  |                     | 3.40 105                                       | 87.3 1223                                                                    | 0.27 3.8                                                        | 651 18284            | 23.5          | 8.027        | 8.092             | 4,479              | 7.97        |                    |             |
| W3B  | -7.32             | 12/12/06        | 946            |                                  |                     | 3.15 98                                        | 86.4 1210                                                                    | 0.16 2.2                                                        | 648 18199            | 23.4          | 8.021        | 8.369             | 4,632              | 7.89        |                    |             |
| W3B  | -7.32             | 1/9/07          | 1014           |                                  |                     | 3.22 100                                       | 88.1 1234                                                                    | 0.26 3.6                                                        | 651 18284            | 23            | 8.034        | 8.730             | 4,832              | 7.84        |                    |             |
| W3B  | -7.32             | 2/22/07         | 1000           |                                  |                     | 3.15 98                                        | 91.6 1283                                                                    | 0.19 2.7                                                        | 657 18452            | 23.2          | 8.009        | 8.887             | 4,919              | 7.84        |                    |             |
| W3B  | -7.32             | 3/6/07          | 1025           |                                  |                     | 3.18 98                                        | 93.4 1308                                                                    | 0.21 2.9                                                        | 666 18705            | 23.1          | 8.049        | 8.549             | 4,732              | 8.01        |                    |             |
| W3B  | -7.32             | 4/11/07         | 1147           |                                  |                     | 3.23 100                                       | 87.3 1223                                                                    | 0.19 2.7                                                        | 671 18845            | 23.4          | 8.048        | 8.520             | 4,716              | 7.67        |                    |             |
| W3B  | -7.32             | 5/3/07          | 1000           |                                  |                     | 3.35 104                                       | 93.7 1312                                                                    | 0.24 3.4                                                        | 686 19267            | 23.5          | 8.067        | 8.471             | 4,689              | 7.65        |                    |             |
| W3B  | -7.32             | 6/19/07         | 935            |                                  |                     | 3.13 97                                        | 90.8 1272                                                                    | 0.17 2.4                                                        | 649 18227            | 23.3          | 8.066        | 8.664             | 4,796              | 8.13        |                    |             |
| W3B  | -7.32             | 7/26/07         | 1040           | -6.00                            | 0.37 Flood          | 3.09 96                                        | 99.6 1395                                                                    | 0.04 0.5                                                        | 661 18576            | 23.5          | 7.97         | 8.19              | 4,533              | 7.27        |                    |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1999 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 8/28/07         | 1023           | -6.02                            | 0.00 Low            | 3.45 107                                       | 102.0 1429                                                                   | 0.51 7.2                                                        | 929 26085            | 24.2          | 7.90         | 8.14              | 4,506              | 7.24        |                    |             |
| W3B  | -7.32             | 9/13/07         | 1215           | -5.94                            | 0.15 Low            | 3.51 109                                       | 103.0 1443                                                                   | 0.74 10.4                                                       | 751 21104            | 24.0          | 8.02         | 8.29              | 4,589              | 6.82        |                    |             |
| W3B  | -7.32             | 10/24/07        | 1126           | -5.94                            | 0.30 Flood          | 3.37 105                                       | 108.3 1517                                                                   | 0.01 0.2                                                        | 658 18466            | 23.5          | 8.04         | 8.12              | 4,495              | 7.16        |                    |             |
| W3B  | -7.32             | 11/26/07        | 1437           | -5.26                            | 0.09 Flood          | 3.58 111                                       | 101.0 1414                                                                   | 0.60 8.5                                                        | 739 20751            | 23.3          | 8.10         | 8.52              | 4,716              | 7.29        |                    |             |
| W3B  | -7.32             | 12/20/07        | 1114           | -5.82                            | 0.23 High           | 2.72 84                                        | 81.8 1146                                                                    | 0.55 7.7                                                        | 525 14748            | 23.5          | 8.06         | 6.26              | 3,465              | 7.26        |                    |             |
| W3B  | -7.32             | 1/28/08         | 1419           | -6.02                            | 0.06 Low            | 2.96 92                                        | 79.6 1115                                                                    | 0.31 4.3                                                        | 398 11178            | 23.2          | 7.91         | 8.23              | 4,556              | 6.92        |                    |             |
| W3B  | -7.32             | 2/27/08         | 1153           | -5.79                            | 0.06 Low            | 3.32 103                                       | 98.1 1374                                                                    | 0.63 8.8                                                        | 630 17693            | 23.2          | 7.90         | 8.31              | 4,600              | 7.42        |                    |             |
| W3B  | -7.32             | 3/20/08         | 1211           | -6.04                            | 0.12 Flood          | 3.24 100                                       | 108.7 1522                                                                   | 0.07 1                                                          | 618 17363            | 23.0          | 7.98         | 8.25              | 4,567              | 7.07        |                    |             |
| W3B  | -7.32             | 4/28/08         | 1155           | -6.00                            | 0.18 High           | 3.08 95                                        | 102.2 1432                                                                   | 0.19 2.6                                                        | 643 18057            | 23.1          | 7.96         | 8.22              | 4,550              | 6.83        |                    |             |
| W3B  | -7.32             | 5/29/08         | 1007           |                                  | 0.30 Flood          | 2.96 92                                        | 102.7 1438                                                                   | 0.12 1.7                                                        | 640 17969            | 23.7          | 7.98         | 8.17              | 4,522              | 7.25        |                    |             |
| W3B  | -7.32             | 6/19/08         | 1049           | -6.22                            | 0.21 Ebb            | 2.87 89                                        | 99.0 1387                                                                    | 0.18 2.5                                                        | 641 18014            | 25.3          | 7.86         | 8.35              | 4,622              | 6.55        | 0.21               |             |
| W3B  | -7.32             | 7/24/08         | 1009           | -5.74                            | 0.46 Ebb            | 2.99 93                                        | 125.3 1756                                                                   | 0.72 10.1                                                       | 650 18246            | 23.1          | 7.89         | 8.10              | 4,484              | 7.21        |                    |             |
| W3B  | -7.32             | 8/30/08         | 1033           |                                  | 0.06 Flood          | 2.68 83                                        | 96.8 1356                                                                    | 0.29 4.0                                                        | 529 14866            | 23.2          | 7.98         | 8.44              | 4,672              | 7.27        |                    |             |
| W3B  | -7.32             | 9/18/08         | 920            | -5.58                            | 0.34 Ebb            | 1.12 35                                        | 37.0 519                                                                     | 1.29 18.0                                                       | 345 9698             | 23.1          | 7.85         | 8.16              | 4,517              | 7.20        | 0.13               |             |
| W3B  | -7.32             | 10/28/08        | 922            | -5.83                            | 0.24 Ebb            | 3.32 103                                       | 102.3 1433                                                                   | 0.47 6.6                                                        | 623 17510            | 24.4          | 7.72         | 8.01              | 4,434              | 7.35        | 0.7                |             |
| W3B  | -7.32             | 11/13/08        | 942            | -5.80                            | 0.15 Ebb            | 2.99 93                                        | 98.0 1372                                                                    | 0.06 0.9                                                        | 537 15082            | 24.9          | 7.84         | 7.93              | 4,389              | 7.19        | 0.37               |             |
| W3B  | -7.32             | 12/15/08        | 1025           | -5.67                            | 0.37 Ebb            | 3.28 102                                       | 106.9 1497                                                                   | 0.33 4.6                                                        | 596 16735            | 24.5          | 8.16         | 7.83              | 4,334              | 7.51        |                    |             |
| W3B  | -7.32             | 1/21/09         | 934            | -5.99                            | 0.12 Low            | 2.56 79                                        | 100.0 1400                                                                   | 0.14 1.9                                                        | 574 16135            | 24.3          | 8.16         | 7.08              | 3,919              | 7.54        | 0.12               |             |
| W3B  | -7.32             | 2/23/09         | 1515           | -5.83                            | 0.37 High           | 3.02 93                                        | 104.6 1466                                                                   | 1.04 14.6                                                       | 637 17898            | 23.8          | 7.99         | 8.39              | 4,644              | 7.56        | 0.33               |             |
| W3B  | -7.32             | 3/16/09         | 809            | -5.94                            | 0.18 High           | 3.17 98                                        | 81.6 1143                                                                    | 0.54 7.6                                                        | 540 15162            | 25.9          | 7.91         | 8.56              | 4,738              | 7.13        | 0.09               |             |
| W3B  | -7.32             | 4/20/09         | 1512           | -5.81                            | 0.43 High           | 3.94 122                                       | 92.0 1289                                                                    | 0.46 6.4                                                        | 418 11753            | 24.3          | 7.91         | 8.55              | 4,733              | 7.93        | 1.30               |             |
| W3B  | -7.32             | 5/27/09         | 755            | -5.91                            | 0.15 Ebb            | 3.66 114                                       | 92.0 1288                                                                    | 0.21 3.0                                                        | 669 18798            | 22.5          | 7.83         | 8.64              | 4,782              | 6.88        | 0.11               |             |
| W3B  | -7.32             | 6/18/09         | 1016           | -5.80                            | 0.34 Flood          | 2.84 88                                        | 65.5 917                                                                     | 0.49 6.8                                                        | 269 7546             | 22.7          | 8.11         | 8.11              | 4,489              | 8.12        | 0.11               |             |
| W3B  | -7.32             | 7/14/09         | 825            | -5.82                            | 0.37 Flood          | 2.31 72                                        | 48.3 677                                                                     | 0.23 3.2                                                        | 366 10281            | 22.5          | 8.17         | 8.63              | 4,777              | 7.71        | 0.04               |             |
| W3B  | -7.32             | 8/19/09         | 848            | -6.01                            | 0.03 Low            | 3.55 110                                       | 103.4 1449                                                                   | 0.51 7.2                                                        | 491 13782            | 23.0          | 7.98         | 7.93              | 4,389              | 7.39        | 0.05               |             |
| W3B  | -7.32             | 9/22/09         | 859            | -5.63                            | 0.46 Ebb            | 1.89 58                                        | 44.4 622                                                                     | 0.12 1.7                                                        | 254 7144             | 23.2          | 8.05         | 8.57              | 4,744              | 7.63        | 0.05               |             |
| W3B  | -7.32             | 10/22/09        | 1324           | -5.95                            | 0.18 Ebb            | 3.13 97                                        | 89.9 1259                                                                    | 0.27 3.8                                                        | 254 7140             | 23.5          | 8.07         | 8.63              | 4,777              | 7.78        | 0.04               |             |
| W3B  | -7.32             | 11/16/09        | 1429           | -5.98                            | 0.21 High           | 3.50 108                                       | 96.7 1355                                                                    | 0.81 11.3                                                       | 632 17762            | 23.4          | 8.04         | 8.79              | 4,865              | 7.03        | 0.03               |             |
| W3B  | -7.32             | 12/7/09         | 1404           | -6.02                            | 0.09 Ebb            | 3.39 105                                       | 100.9 1413                                                                   | 0.29 4.0                                                        | 543 15240            | 23.8          | 8.00         | 8.88              | 4,915              | 6.40        | 0.02               |             |
| W3B  | -7.32             | 1/5/10          | 1138           | -5.78                            | 0.21 Ebb            | 3.00 93                                        | 93.0 1302                                                                    | 0.64 9.0                                                        | 584 16396            | 23.8          | 8.05         | 8.87              | 4,910              | 7.82        | 0.39               |             |
| W3B  | -7.32             | 2/1/10          | 1159           | -5.92                            | -0.09 Low           | 3.49 108                                       | 103.5 1450                                                                   | 1.36 19.0                                                       | 596 16748            | 22.9          | 8.08         | 8.60              | 4,760              | 7.21        | 0.06               |             |
| W3B  | -7.32             | 3/9/10          | 1202           | -5.98                            | 0.15 High           | 3.58 111                                       | 93.6 1311                                                                    | 0.14 2.0                                                        | 587 16483            | 22.8          | 8.04         | 8.88              | 4,915              | 7.46        | 1.04               |             |
| W3B  | -7.32             | 4/6/10          | 1048           | -6.00                            | 0.15 High           | 3.58 111                                       | 93.8 1314                                                                    | 0.36 5.0                                                        | 642 18025            | 22.6          | 8.06         | 8.92              | 4,937              | 8.02        | 0.25               |             |
| W3B  | -7.32             | 5/11/10         | 1110           | -5.98                            | 0.21 Flood          | 3.52 109                                       | 83.8 1174                                                                    | 2.21 31.0                                                       | 564 15834            | 22.7          | 8.08         | 8.12              | 4,495              | 7.99        | 0.15               |             |
| W3B  | -7.32             | 6/15/10         | 1158           | -6.15                            | 0.06 Low            | 3.10 96                                        | 80.7 1130                                                                    | 0.36 5.0                                                        | 546 15327            | 22.6          | 8.10         | 8.43              | 4,666              | 7.79        | 0.21               |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1999 - 6/30/2025

| Site | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B  | -7.32             | 7/13/10         | 1110           | -6.05                            | 0.00 Low            | 3.45 107                                       | 95.2 1333                                                                    | 1.14 16.0                                                       | 687 19308            | 22.6          | 8.06         | 8.64              | 4,782              | 7.64        | 0.09               |             |
| W3B  | -7.32             | 8/3/10          | 1116           | -5.58                            | 0.55 High           | 3.78 117                                       | 99.0 1387                                                                    | 0.40 5.6                                                        | 687 19293            | 22.8          | 8.09         | 8.13              | 4,500              | 7.79        | 0.22               |             |
| W3B  | -7.32             | 9/14/10         | 1127           | -5.54                            | 0.52 Ebb            | 3.71 115                                       | 97.5 1365                                                                    | 0.49 6.9                                                        | 712 20001            | 22.7          | 8.06         | 8.33              | 4,611              | 7.86        | 0.12               |             |
| W3B  | -7.32             | 10/12/10        | 1139           | -5.59                            | 0.46 Ebb            | 3.55 110                                       | 99.0 1386                                                                    | 0.25 3.5                                                        | 735 20649            | 22.9          | 8.06         | 8.44              | 4,672              | 7.59        | 0.09               |             |
| W3B  | -7.32             | 11/16/10        | 1054           | -5.73                            | 0.34 Flood          | 3.65 113                                       | 103.0 1443                                                                   | 0.36 5.1                                                        | 723 20298            | 22.8          | 8.05         | 8.01              | 4,434              | 7.90        | 0.08               |             |
| W3B  | -7.32             | 12/14/10        | 1132           | -5.69                            | 0.34 Ebb            | 3.52 109                                       | 100.6 1409                                                                   | 0.33 4.6                                                        | 685 19235            | 22.8          | 8.06         | 8.07              | 4,467              | 7.75        | 0.05               |             |
| W3B  | -7.32             | 1/4/11          | 1119           | -5.92                            | 0.03 Low            | 3.52 109                                       | 96.5 1352                                                                    | 0.33 4.6                                                        | 675 18965            | 22.9          | 8.00         | 8.10              | 4,484              | 7.28        | 0.06               |             |
| W3B  | -7.32             | 4/5/11          | 1143           | -6.05                            | -0.03 Low           | 3.26 101                                       | 87.6 1227                                                                    | 0.43 6.0                                                        | 676 18975            | 22.8          | 8.03         | 7.96              | 4,406              | 6.75        | 0.16               |             |
| W3B  | -7.32             | 7/12/11         | 1104           | -5.98                            | 0.30 Flood          | 3.65 113                                       | 94.6 1325                                                                    | 0.23 3.2                                                        | 678 19047            | 22.8          | 8.01         | 8.58              | 4,749              | 7.60        | 0.02               |             |
| W3B  | -7.32             | 10/11/11        | 1137           | -5.92                            | 0.15 Flood          | 3.49 108                                       | 93.2 1305                                                                    | 0.11 1.6                                                        | 659 18516            | 23.0          | 8.02         | 8.19              | 4,533              | 7.84        | 0.20               |             |
| W3B  | -7.32             | 1/10/12         | 1134           | -6.00                            | 0.03 Ebb            | 3.33 103                                       | 91.5 1282                                                                    | 0.53 7.4                                                        | 650 18252            | 23.1          | 8.04         | 8.79              | 4,865              | 6.90        | 0.08               |             |
| W3B  | -7.32             | 5/1/12          | 1149           | -5.78                            | 0.34 Flood          | 3.71 115                                       | 96.0 1345                                                                    | 0.30 4.2                                                        | 689 19359            | 22.8          | 8.10         | 8.21              | 4,544              | 7.91        | 0.02               |             |
| W3B  | -7.32             | 7/18/12         | 1043           | -6.07                            | 0.09 Flood          | 3.68 114                                       | 100.7 1410                                                                   | 0.62 8.7                                                        | 657 18463            | 23.1          | 8.04         | 8.47              | 4,688              | 8.10        | 0.05               |             |
| W3B  | -7.32             | 10/16/12        | 1131           | -5.96                            | 0.09 Low            | 3.68 114                                       | 99.9 1399                                                                    | 0.44 6.1                                                        | 669 18793            | 23.0          | 8.00         | 8.44              | 4,672              | 7.78        | 0.15               |             |
| W3B  | -7.32             | 1/8/13          | 1150           | -5.98                            | 0.18 Flood          | 3.94 122                                       | 103.7 1452                                                                   | 0.44 6.2                                                        | 722 20272            | 23.1          | 7.98         | 8.46              | 4,683              | 7.40        | 0.02               |             |
| W3B  | -7.32             | 4/9/13          | 1152           | -6.07                            | 0.00 Flood          | 3.81 118                                       | 92.5 1296                                                                    | 0.49 6.8                                                        | 705 19805            | 22.8          | 8.03         | 8.60              | 4,760              | 6.57        | 0.15               |             |
| W3B  | -7.32             | 7/17/13         | 1246           | -5.70                            | 0.61 High           | 3.55 110                                       | 94.5 1324                                                                    | 0.69 9.7                                                        | 684 19203            | 23.1          | 7.90         | 8.55              | 4,733              | 7.52        | 0.05               |             |
| W3B  | -7.32             | 10/15/13        | 1110           | -5.76                            | 0.37 Flood          | 3.52 109                                       | 98.3 1377                                                                    | 0.86 12.0                                                       | 673 18915            | 23.6          | 7.97         | 8.58              | 4,749              | 7.51        | 0.07               |             |
| W3B  | -7.32             | 1/15/14         | 1116           | -5.96                            | 0.03 Low            | 3.78 117                                       | 93.9 1315                                                                    | 0.56 7.8                                                        | 642 18026            | 23.7          | 8.04         | 8.42              | 4,661              | 7.30        | 0.03               |             |
| W3B  | -7.32             | 4/29/14         | 1217           | -6.11                            | 0.12 Flood          | 3.33 103                                       | 89.9 1259                                                                    | 0.57 8.0                                                        | 616 17297            | 23.5          | 7.98         | 8.36              | 4,627              | 7.78        | 0.15               |             |
| W3B  | -7.32             | 7/29/14         | 1156           | -5.99                            | 0.12 Low            | 4.13 128                                       | 91.3 1279                                                                    | 1.07 15.0                                                       | 640 17985            | 23.4          | 7.97         | 8.54              | 4,727              | 7.32        | 0.28               |             |
| W3B  | -7.32             | 11/5/14         | 1149           | -5.82                            | 0.17 Flood          | 3.78 117                                       | 103.7 1452                                                                   | 0.54 7.5                                                        | 651 18296            | 24.0          | 8.01         | 7.70              | 4,262              | 8.22        | 0.14               |             |
| W3B  | -7.32             | 2/11/15         | 1042           | -5.76                            | 0.18 Ebb            | 4.56 141                                       | 118.2 1656                                                                   | 1.03 14.4                                                       | 595 16700            | 23.4          | 7.93         | 8.12              | 4,495              | 7.79        | 0.14               |             |
| W3B  | -7.32             | 5/20/15         | 1210           | -6.06                            | 0.00 Flood          | 4.32 134                                       | 95.4 1336                                                                    | 1.17 16.4                                                       | 598 16789            | 23.2          | 8.07         | 8.46              | 4,683              | 7.53        | 0.03               |             |
| W3B  | -7.32             | 7/22/15         | 952            | -5.82                            | 0.34 Ebb            | 3.95 122                                       | 91.9 1287                                                                    | 0.11 1.5                                                        | 614 17248            | 23.5          | 7.95         | 8.78              | 4,860              | 7.81        | 0.02               |             |
| W3B  | -7.32             | 11/9/15         | 1500           | -5.56                            | 0.40 Ebb            | 4.23 131                                       | 132.8 1860                                                                   | 0.06 0.8                                                        | 961 26992            | 23.9          | 8.01         | 7.47              | 4,135              | 8.36        | 0.05               |             |
| W3B  | -7.32             | 1/27/16         | 1302           | -6.03                            | 0.08 Low            | 4.04 125                                       | 110.7 1551                                                                   | 0.21 3.0                                                        | 624 17537            | 23.6          | 7.94         | 8.56              | 4,738              | 7.45        | 0.11               |             |
| W3B  | -7.32             | 4/22/16         | 1012           | -5.97                            | -0.05 Low           | 3.86 120                                       | 89.7 1256                                                                    | 0.40 5.6                                                        | 604 16955            | 23.5          | 8.03         | 7.93              | 4,389              | 7.44        | 0.06               |             |
| W3B  | -7.32             | 7/27/16         | 1010           | -5.76                            | 0.20 Flood          | 3.54 110                                       | 96.5 1352                                                                    | 0.21 2.9                                                        | 545 15311            | 23.2          | 8.07         | 8.48              | 4,694              | 7.27        | 0.02               |             |
| W3B  | -7.32             | 11/10/16        | 1013           | -5.79                            | 0.50 Flood          | 3.77 117                                       | 97.5 1366                                                                    | 0.13 1.8                                                        | 548 15390            | 23.7          | 7.89         | 7.95              | 4,401              | 7.35        | 0.02               |             |
| W3B  | -7.32             | 3/22/17         | 1312           | -5.71                            | 0.25 High           | 3.99 124                                       | 96.7 1354                                                                    | 0.31 4.4                                                        | 640 17963            | 23.8          | 8.09         | 7.75              | 4,290              | 7.64        | 0.04               |             |
| W3B  | -7.32             | 4/19/17         | 1204           | -5.79                            | 0.17 Ebb            | 3.65 113                                       | 99.2 1390                                                                    | 0.71 10.0                                                       | 663 18615            | 24.1          | 8.00         | 7.94              | 4,395              | 5.84        | 0.05               |             |
| W3B  | -7.32             | 8/8/17          | 1002           | -5.91                            | -0.04 Low           | 3.57 111                                       | 81.9 1147                                                                    | 0.10 1.4                                                        | 661 18561            | 23.8          | 8.00         | 8.06              | 4,461              | 6.33        | 0.06               |             |
| W3B  | -7.32             | 10/18/17        | 1227           | -5.79                            | 0.50 Flood          | 3.70 115                                       | 96.3 1348                                                                    | 0.62 8.7                                                        | 617 17339            | 24.0          | 8.02         | 7.53              | 4,168              | 7.26        | 0.09               |             |
| W3B  | -7.32             | 1/18/18         | 953            | -5.72                            | 0.15 Ebb            | 3.50 108                                       | 97.0 1358                                                                    | 0.21 3.0                                                        | 638 17905            | 23.5          | 7.98         | 8.14              | 4,506              | 7.34        | 0.51               |             |

# NELHA Water Quality Laboratory

## Well 3B Data Table

6/27/1989 - 6/30/2025

| Site      | Pump<br>Depth (m) | Date<br>(M/D/Y) | Time<br>(2400) | Depth to<br>H <sub>2</sub> O (m) | Tide<br>(m) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | Temp.<br>(°C) | pH<br>(unit) | Salinity<br>(PSU) | Chloride<br>(mg/L) | DO<br>(ppm) | Turbidity<br>(NTU) | ORP<br>(mV) |
|-----------|-------------------|-----------------|----------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W3B       | -7.32             | 5/10/18         | 1002           | -5.93                            | 0.25 Flood          | 3.43 106                                       | 102.2 1431                                                                   | 0.14 1.9                                                        | 643 18054            | 21.8          | 7.99         | 8.91              | 4,932              | 8.08        | 2.03               |             |
| W3B       | -7.32             | 8/13/18         | 1535           | -5.68                            | 0.43 Flood          | 3.62 112                                       | 101.9 1428                                                                   | 0.45 6.3                                                        | 685 19242            | 24.5          | 7.97         | 8.43              | 4,666              | 7.36        | 0.05               |             |
| W3B       | -7.32             | 10/25/18        | 1036           | -5.81                            | 0.12 Low            | 3.69 114                                       | 98.3 1377                                                                    | 0.24 3.4                                                        | 633 17765            | 24.5          | 8.01         | 7.29              | 4,035              | 8.13        | 0.08               |             |
| W3B       | -7.32             | 2/8/19          | 934            | -5.76                            | 0.20 Ebb            | 3.87 120                                       | 130.1 1822                                                                   | 0.03 0.4                                                        | 647 18167            | 23.4          | 7.87         | 8.66              | 4,794              | 7.70        | 0.05               |             |
| W3B       | -7.32             | 5/15/19         | 1419           | -5.67                            | 0.52 High           | 4.01 124                                       | 100.2 1403                                                                   | 0.04 0.6                                                        | 619 17399            | 23.0          | 7.95         | 7.78              | 4,306              | 8.18        | 0.04               |             |
| W3B       | -7.32             | 8/28/19         | 1351           | -5.5                             | 0.70 High           | 4.16 129                                       | 97.2 1362                                                                    | 0.07 1.0                                                        | 626 17581            | 23.8          | 7.99         | 8.09              | 4,478              | 7.94        | 0.08               |             |
| W3B       | -7.32             | 10/11/19        | 945            | -5.84                            | 0.15 Flood          | 4.07 126                                       | 87.6 1227                                                                    | 0.01 0.2                                                        | 613 17209            | 23.9          | 8.03         | 8.16              | 4,517              | 8.31        | 0.06               |             |
| W3B       | -7.32             | 2/4/20          | 1047           | -5.86                            | 0.25 High           | 4.28 133                                       | 116.3 1630                                                                   | 0.24 3.3                                                        | 647 18158            | 23.6          | 8.00         | 8.43              | 4,666              | 7.64        | 0.05               |             |
| W3B       | -7.32             | 6/3/20          | 1119           | -5.76                            | 0.35 Flood          | 3.44 106                                       | 101.8 1426                                                                   | 0.14 2.0                                                        | 621 17454            | 24.0          | 7.91         | 7.89              | 4,367              | 8.15        | 0.12               |             |
| W3B       | -7.32             | 8/18/20         | 1412           | -5.52                            | 0.60 Flood          | 3.11 96                                        | 106.0 1485                                                                   | 0.21 3.0                                                        | 624 17530            | 23.6          | 8.02         | 7.78              | 4,306              | 7.25        | 0.02               |             |
| W3B       | -7.32             | 12/10/20        | 930            | -5.71                            | 0.40 Flood          | 3.89 120                                       | 113.4 1588                                                                   | -0.04 -0.5                                                      | 636 17875            | 23.6          | 7.97         | 8.17              | 4,522              | 7.91        | 0.05               |             |
| W3B       | -7.32             | 2/18/21         | 942            | -5.86                            | 0.25 Ebb            | 3.43 106                                       | 97.8 1370                                                                    | 0.32 4.5                                                        | 616 17307            | 23.5          | 7.95         | 8.21              | 4,544              | 7.94        | 0.04               |             |
| W3B       | -7.32             | 4/15/21         | 938            | -5.93                            | -0.02 Low           | 3.28 102                                       | 102.0 1429                                                                   | 0.13 1.8                                                        | 628 17636            | 23.5          | 7.87         | 8.09              | 4,478              | 7.82        | 0.04               |             |
| W3B       | -7.32             | 7/6/21          | 956            | -6.01                            | 0.20 Flood          | 3.31 102                                       | 105.3 1475                                                                   | 0.09 1.3                                                        | 603 16945            | 23.6          | 7.88         | 8.67              | 4,799              | 7.80        | 0.05               |             |
| W3B       | -7.32             | 11/8/21         | 1029           | -5.62                            | 0.35 Ebb            | 3.53 109                                       | 98.3 1377                                                                    | 0.16 2.2                                                        | 630 17697            | 23.4          | 7.88         | 8.73              | 4,832              | 7.80        | 0.10               |             |
| W3B       | -7.32             | 2/8/22          | 953            | -5.77                            | 0.25 Ebb            | 3.25 101                                       | 118.7 1662                                                                   | 0.09 1.3                                                        | 698 19614            | 23.1          | 7.93         | 8.49              | 4,699              | 7.90        | 0.02               |             |
| W3B       | -7.32             | 4/21/22         | 955            | -6.01                            | 0.08 Ebb            | 3.14 97                                        | 97.2 1362                                                                    | 0.11 1.6                                                        | 651 18276            | 23.0          | 7.89         | 9.21              | 5,098              | 7.76        | 0.02               |             |
| W3B       | -7.32             | 7/12/22         | 1116           | -6.05                            | 0.30 Flood          | 3.43 106                                       | 108.1 1514                                                                   | -0.30 -4.2                                                      | 675 18948            | 23.2          | 7.93         | 8.24              | 4,561              | 7.93        | 0.02               |             |
| W3B       | -7.32             | 11/21/22        | 1149           | -5.81                            | 0.40 High           | 3.42 106                                       | 107.8 1510                                                                   | 0.01 0.1                                                        | 623 17510            | 23.5          | 8.05         | 7.87              | 4,356              | 7.96        | 0.18               |             |
| W3B       | -7.32             | 1/25/23         | 1405           | -6.03                            | 0.10 Flood          | 3.51 109                                       | 105.4 1476                                                                   | 0.08 1.1                                                        | 634 17820            | 23.3          | 7.93         | 8.41              | 4,655              | 7.82        | 0.04               |             |
| W3B       | -7.32             | 4/25/23         | 1000           | -6.03                            | 0.03 Low            | 3.86 120                                       | 110.8 1552                                                                   | 0.12 1.7                                                        | 635 17844            | 23.0          | 7.93         | 8.28              | 4,583              | 7.90        | 0.06               |             |
| W3B       | -7.32             | 8/14/23         | 1038           | -5.93                            | 0.20 Flood          | 3.94 122                                       | 99.2 1390                                                                    | 0.01 0.1                                                        | 629 17672            | 23.3          | 7.95         | 7.98              | 4,417              | 7.94        | 0.84               |             |
| W3B       | -7.32             | 11/16/23        | 935            | -5.49                            | 0.40 Ebb            | 2.72 84                                        | 105.2 1474                                                                   | 0.13 1.8                                                        | 617 17342            | 23.4          | 7.95         | 7.74              | 4,284              | 8.00        | 0.21               | 187.6       |
| W3B       | -7.32             | 1/23/24         | 1448           | -5.79                            | 0.80 High           | 3.15 98                                        | 105.6 1479                                                                   | 0.04 0.5                                                        | 630 17691            | 23.0          | 7.94         | 7.84              | 4,340              | 7.91        | 0.07               | 160.8       |
| W3B       | -7.32             | 5/3/24          | 1147           | -5.78                            | 0.37 High           | 3.20 99                                        | 105.7 1480                                                                   | -0.05 -0.7                                                      | 619 17398            | 23.1          | 7.99         | 8.12              | 4,495              | 7.92        | 1.33               | 171.7       |
| W3B       | -7.32             | 7/31/24         | 1009           | -5.79                            | 0.35 Flood          | 3.31 102                                       | 109.2 1530                                                                   | 0.06 0.9                                                        | 616 17294            | 23.1          | 7.95         | 8.06              | 4,461              | 8.06        | 0.10               | 151.3       |
| W3B       | -7.32             | 12/10/24        | 1330           | -5.67                            | 0.30 Ebb            | 3.38 105                                       | 115.5 1618                                                                   | 0.24 3.4                                                        | 601 16884            | 23.5          | 7.96         | 8.32              | 4,605              | 8.02        | 0.16               | 208.0       |
| W3B       | -7.32             | 1/9/25          | 1152           | -5.75                            | 0.30 High           | 3.62 112                                       | 126.1 1766                                                                   | 1.08 15.1                                                       | 614 17232            | 23.2          | 7.99         | 8.26              | 4,572              | 8.08        | 0.09               | 184.1       |
| W3B       | -7.32             | 5/13/25         | 1457           | -5.63                            | 0.00 Flood          | 3.44 106                                       | 117.5 1645                                                                   | 0.05 0.7                                                        | 602 16907            | 22.9          | 8.00         | 8.03              | 4,445              | 8.14        | 0.04               | 175.5       |
| Mean      |                   |                 |                | -5.85                            | 0.23                | 3.32 103                                       | 89.12 1248                                                                   | 0.22 3.0                                                        | 661 18566            | 23.1          | 8.02         | 8.18              | 4,526              | 7.75        | 0.18               | 177.0       |
| Std. Dev. |                   |                 |                | 0.17                             | 0.18                | 0.34 10                                        | 12.32 173                                                                    | 0.27 3.7                                                        | 74 2095              | 0.6           | 0.07         | 0.48              | 266                | 0.39        | 0.32               | 18.6        |
| Maximum   |                   |                 |                | -5.26                            | 0.80                | 4.91 152                                       | 133 1860                                                                     | 2.21 31.0                                                       | 961 26992            | 25.9          | 8.60         | 9.21              | 5,098              | 10.60       | 2.03               | 208.0       |
| Minimum   |                   |                 |                | -6.22                            | -0.09               | 1.12 35                                        | 36 504                                                                       | -0.30 -4.2                                                      | 254 7140             | 19.7          | 7.72         | 6.26              | 3,465              | 5.84        | 0.02               | 151.3       |
| n         |                   |                 |                | 98                               | 100                 | 306 306                                        | 306 306                                                                      | 305 306                                                         | 300 299              | 305           | 303          | 304               | 304                | 302         | 86                 | 7           |