

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 6/27/89         |               |                                  |                     | 2.47 77                                        | 57.6 807                                                                     | 0.51 7.1                                                        |                      | 22.4          | 7.796        | 18.972            | 10,501             | 4.87        |                    |             |
| W4   | -15.24            | 8/10/89         | 947           |                                  |                     | 2.32 72                                        | 88.0 1233                                                                    | 0.48 6.7                                                        |                      | 21.2          | 7.648        | 18.626            | 10,310             | 5.40        |                    |             |
| W4   | -15.24            | 8/15/89         | 1430          |                                  |                     | 2.09 65                                        | 75.0 1051                                                                    | 0.67 9.4                                                        |                      | 21.1          | 7.696        | 19.164            | 10,608             | 5.19        |                    |             |
| W4   | -15.24            | 8/22/89         | 1410          |                                  |                     | 2.35 73                                        | 87.5 1226                                                                    | 0.54 7.6                                                        |                      | 20.8          | 7.771        | 18.827            | 10,421             | 6.24        |                    |             |
| W4   | -15.24            | 8/30/89         | 1410          |                                  |                     | 2.34 72                                        | 87.0 1219                                                                    | 0.58 8.1                                                        |                      | 21.4          | 7.719        | 18.791            | 10,401             | 5.47        |                    |             |
| W4   | -15.24            | 8/30/89         | 1410          |                                  |                     | 2.34 72                                        | 88.0 1233                                                                    | 0.54 7.6                                                        |                      |               |              |                   |                    |             |                    |             |
| W4   | -15.24            | 10/31/89        | 1110          |                                  |                     | 2.40 74                                        | 46.8 656                                                                     | 0.10 1.4                                                        | 539 15138            | 20.9          | 7.750        | 18.537            | 10,261             | 5.24        |                    |             |
| W4   | -15.24            | 11/16/89        | 1108          |                                  |                     | 2.15 67                                        | 40.9 573                                                                     | 0.06 0.8                                                        | 526 14773            | 22.4          | 7.755        | 18.917            | 10,471             | 5.84        |                    |             |
| W4   | -15.24            | 12/12/89        | 1115          |                                  |                     | 6.50 201                                       | 71.9 1007                                                                    | 0.93 13.0                                                       | 456 12807            | 20.8          | 8.385        | 18.554            | 10,270             | 5.20        |                    |             |
| W4   | -15.24            | 1/11/90         | 912           |                                  |                     | 2.96 92                                        | 48.1 674                                                                     | 1.17 16.4                                                       | 512 14380            | 21.2          | 8.095        | 18.857            | 10,438             | 4.84        |                    |             |
| W4   | -15.24            | 2/14/90         | 1130          |                                  |                     | 2.93 91                                        | 51.4 720                                                                     | 0.27 3.8                                                        | 459 12891            | 21.6          | 8.038        | 18.373            | 10,170             | 5.12        |                    |             |
| W4   | -15.24            | 3/7/90          | 1110          |                                  |                     | 2.46 76                                        | 50.1 702                                                                     | 0.44 6.2                                                        | 514                  | 21.1          | 7.965        | 18.298            | 10,128             | 4.94        |                    |             |
| W4   | -15.24            | 4/4/90          | 1310          |                                  |                     | 2.64 82                                        | 45.8 642                                                                     | 1.12 15.7                                                       | 500 14043            | 21.4          | 7.916        | 19.193            | 10,624             | 4.43        |                    |             |
| W4   | -15.24            | 5/17/90         | 1136          |                                  |                     | 2.34 72                                        | 44.6 624                                                                     | 0.07 1.0                                                        | 490 13762            | 21.3          | 7.865        | 18.944            | 10,486             | 4.59        |                    |             |
| W4   | -15.24            | 6/16/90         | 1043          |                                  |                     | 2.53 78                                        | 43.9 615                                                                     | 0.00 0.0                                                        | 496 13930            | 21.3          | 7.935        | 19.144            | 10,597             | 4.84        |                    |             |
| W4   | -15.24            | 7/17/90         | 1122          |                                  |                     | 2.57 80                                        | 41.5 581                                                                     | 0.00 0.0                                                        | 493 13846            | 21.4          | 7.923        | 19.677            | 10,892             | 4.70        |                    |             |
| W4   | -15.24            | 8/8/90          | 1115          |                                  |                     | 1.99 62                                        | 51.8 726                                                                     | 0.29 4.1                                                        | 496 13930            | 21.4          | 7.901        | 19.841            | 10,983             | 4.74        |                    |             |
| W4   | -15.24            | 9/5/90          | 1119          |                                  |                     | 2.39 74                                        | 42.8 600                                                                     | 0.00 0.0                                                        |                      | 21.4          | 7.898        | 17.356            | 9,607              | 4.74        |                    |             |
| W4   | -15.24            | 10/4/90         | 1128          |                                  |                     | 2.24 69                                        | 40.5 567                                                                     | 0.00 0.0                                                        | 496 13930            | 21.2          | 7.893        | 19.640            | 10,871             | 4.80        |                    |             |
| W4   | -15.24            | 11/1/90         | 1143          |                                  |                     | 2.16 67                                        | 42.6 597                                                                     | 0.04 0.6                                                        | 494 13874            | 21.3          | 7.886        | 19.799            | 10,959             | 4.47        |                    |             |
| W4   | -15.24            | 12/10/90        | 1120          |                                  |                     | 2.26 70                                        | 44.2 619                                                                     | 0.13 1.8                                                        | 537 15082            | 21.3          | 7.898        | 19.239            | 10,649             | 4.82        |                    |             |
| W4   | -15.24            | 1/10/91         | 900           |                                  |                     | 2.23 69                                        | 45.7 640                                                                     | 0.03 0.4                                                        | 484 13593            | 21.4          | 7.896        | 19.390            | 10,733             | 4.67        |                    |             |
| W4   | -15.24            | 2/5/91          | 1117          |                                  |                     | 2.27 70                                        | 40.6 569                                                                     | 0.33 4.6                                                        | 442 12414            | 21.3          | 7.897        | 19.163            | 10,607             | 4.79        |                    |             |
| W4   | -15.24            | 3/7/91          | 745           |                                  |                     | 2.04 63                                        | 43.5 609                                                                     | 0.06 0.8                                                        | 477 13397            | 21.0          | 7.901        | 19.098            | 10,571             | 4.92        |                    |             |
| W4   | -15.24            | 4/3/91          | 828           |                                  |                     | 1.90 59                                        | 52.2 731                                                                     | 0.00 0.0                                                        | 473 13284            | 21.0          | 7.912        | 19.304            | 10,685             | 4.77        |                    |             |
| W4   | -15.24            | 5/22/91         | 804           |                                  |                     | 1.96 61                                        | 21.3 298                                                                     | 0.00 0.0                                                        | 555 15587            | 21.2          | 7.890        | 19.625            | 10,863             | 4.68        |                    |             |
| W4   | -15.24            | 6/26/91         | 810           |                                  |                     | 2.28 71                                        | 45.7 640                                                                     | 0.03 0.4                                                        | 511 14352            | 21.2          | 7.906        | 19.209            | 10,633             | 4.74        |                    |             |
| W4   | -15.24            | 7/24/91         | 845           |                                  |                     | 2.07 64                                        | 41.7 584                                                                     | 0.15 2.1                                                        | 498 13987            | 18.7          | 7.887        | 19.580            | 10,838             | 4.71        |                    |             |
| W4   | -15.24            | 8/23/91         | 829           |                                  |                     | 2.24 69                                        | 43.7 612                                                                     | 0.21 2.9                                                        | 516 14492            | 21.1          | 7.847        | 19.429            | 10,754             | 4.68        |                    |             |
| W4   | -15.24            | 9/24/91         | 751           |                                  |                     | 2.11 65                                        | 43.2 605                                                                     | 0.30 4.2                                                        | 504 14155            | 21.2          | 7.855        | 19.182            | 10,618             | 4.84        |                    |             |
| W4   | -15.24            | 10/23/91        | 720           |                                  |                     | 2.58 80                                        | 46.1 646                                                                     | 0.00 0.0                                                        | 739 20755            | 21.1          | 7.943        | 19.450            | 10,766             | 4.62        |                    |             |
| W4   | -15.24            | 11/20/91        | 813           |                                  |                     | 2.87 89                                        | 42.7 598                                                                     | 0.00 0.0                                                        | 561 15756            | 21.1          | 7.898        | 19.452            | 10,767             | 4.65        |                    |             |
| W4   | -15.24            | 12/11/91        | 840           |                                  |                     | 2.97 92                                        | 44.5 623                                                                     | 0.00 0.0                                                        | 488 13706            | 21.5          | 7.947        | 19.590            | 10,844             | 4.43        |                    |             |
| W4   | -15.24            | 1/29/92         | 836           |                                  |                     | 2.63 81                                        | 45.4 636                                                                     | 0.00 0.0                                                        | 490 13762            | 21.1          | 7.952        | 19.091            | 10,567             | 4.78        |                    |             |
| W4   | -15.24            | 2/19/92         | 911           |                                  |                     | 2.73 85                                        | 44.9 629                                                                     | 0.00 0.0                                                        | 464 13032            | 21.7          | 7.923        | 19.331            | 10,700             | 4.72        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 3/17/92         | 824           |                                  |                     | 2.24 69                                        | 44.8 628                                                                     | 0.00 0.0                                                        | 496 13930            | 21.2          | 7.896        | 19.066            | 10,554             | 4.89        |                    |             |
| W4   | -15.24            | 4/8/92          | 811           |                                  |                     | 2.31 72                                        | 45.6 639                                                                     | 0.14 2.0                                                        | 496 13930            | 21.2          | 7.886        | 18.840            | 10,428             | 4.96        |                    |             |
| W4   | -15.24            | 5/6/92          | 821           |                                  |                     | 2.16 67                                        | 43.3 606                                                                     | 0.05 0.7                                                        | 530 14885            | 21.2          | 7.869        | 19.222            | 10,640             | 4.94        |                    |             |
| W4   | -15.24            | 6/23/92         | 822           |                                  |                     | 2.31 72                                        | 44.2 619                                                                     | 0.28 3.9                                                        | 537 15082            | 21.3          | 7.878        | 19.191            | 10,623             | 5.01        |                    |             |
| W4   | -15.24            | 7/29/92         | 811           |                                  |                     | 2.06 64                                        | 43.3 606                                                                     | ND 0.0                                                          | 514 14436            | 21.8          | 7.857        | 19.274            | 10,669             | 4.92        |                    |             |
| W4   | -15.24            | 8/26/92         | 755           |                                  |                     | 2.29 71                                        | 51.4 720                                                                     | 0.14 2.0                                                        | 543 15250            | 21.2          | 7.861        | 19.058            | 10,549             | 4.90        |                    |             |
| W4   | -15.24            | 9/22/92         | 757           |                                  |                     | 2.22 69                                        | 41.9 587                                                                     | 0.00 0.0                                                        | 553 15531            | 21.2          | 7.890        | 19.012            | 10,524             | 4.92        |                    |             |
| W4   | -15.24            | 10/27/92        | 813           |                                  |                     | 2.95 91                                        | 44.3 621                                                                     | 0.14 2.0                                                        | 527 14801            | 21.2          | 7.901        | 19.924            | 11,028             | 4.60        |                    |             |
| W4   | -15.24            | 11/17/92        | 835           |                                  |                     | 2.34 72                                        | 45.6 639                                                                     | 0.19 2.7                                                        | 522 14661            | 21.1          | 7.903        | 19.469            | 10,777             | 4.81        |                    |             |
| W4   | -15.24            | 12/8/92         | 820           |                                  |                     | 2.19 68                                        | 46.4 650                                                                     | 0.21 2.9                                                        | 539 15138            | 21.2          | 7.888        | 19.004            | 10,519             | 4.94        |                    |             |
| W4   | -15.24            | 1/26/93         | 832           |                                  |                     | 2.11 65                                        | 48.5 679                                                                     | 0.19 2.7                                                        | 587 16486            | 21.2          | 7.905        | 18.679            | 10,339             | 5.03        |                    |             |
| W4   | -15.24            | 2/23/93         | 803           |                                  |                     | 2.15 67                                        | 46.9 657                                                                     | 0.05 0.7                                                        | 554 15565            | 21.1          | 7.906        | 18.944            | 10,486             | 4.99        |                    |             |
| W4   | -15.24            | 3/16/93         | 804           |                                  |                     | 2.11 65                                        | 46.1 646                                                                     | 0.10 1.4                                                        | 556 15616            | 21.1          | 7.894        | 18.999            | 10,516             | 5.01        |                    |             |
| W4   | -15.24            | 4/27/93         | 808           |                                  |                     | 2.07 64                                        | 45.0 630                                                                     | 0.21 2.9                                                        | 552 15509            | 21.2          | 7.878        | 19.387            | 10,731             | 4.93        |                    |             |
| W4   | -15.24            | 5/25/93         | 800           |                                  |                     | 2.07 64                                        | 44.3 621                                                                     | 0.21 2.9                                                        | 557 15635            | 21.3          | 7.867        | 19.382            | 10,728             | 4.90        |                    |             |
| W4   | -15.24            | 6/28/93         | 839           |                                  |                     | 2.00 62                                        | 44.6 625                                                                     | 0.16 2.2                                                        | 532 14941            | 21.3          | 7.871        | 19.402            | 10,740             | 4.92        |                    |             |
| W4   | -15.24            | 8/31/93         | 836           |                                  |                     | 2.15 67                                        | 45.0 630                                                                     | 0.00 0.0                                                        | 552 15503            | 21.3          | 7.864        | 19.087            | 10,565             | 5.05        |                    |             |
| W4   | -15.24            | 10/26/93        | 808           |                                  |                     | 2.16 67                                        | 46.2 648                                                                     | 0.32 4.5                                                        | 526 14773            | 21.2          | 7.877        | 18.883            | 10,452             | 5.08        |                    |             |
| W4   | -15.24            | 3/1/94          | 754           |                                  |                     | 2.25 70                                        | 46.0 644                                                                     | 0.19 2.7                                                        | 480 13481            | 21.1          | 7.860        | 19.322            | 10,695             | 4.78        |                    |             |
| W4   | -15.24            | 6/21/94         | 744           |                                  |                     | 2.34 72                                        | 49.8 697                                                                     | 0.21 2.9                                                        | 727 20408            | 21.2          | 8.917        | 19.546            | 10,819             | 4.87        |                    |             |
| W4   | -15.24            | 8/23/94         | 824           |                                  |                     | 3.95 122                                       | 60.2 843                                                                     | 0.18 2.5                                                        | 528 14840            | 21.3          | 8.019        | 19.850            | 10,987             | 5.47        |                    |             |
| W4   | -15.24            | 10/25/94        | 840           |                                  |                     | 2.45 76                                        | 45.4 636                                                                     | 0.40 5.6                                                        | 464 13040            | 21.2          | 7.906        | 19.670            | 10,888             | 4.82        |                    |             |
| W4   | -15.24            | 11/28/94        | 1215          |                                  |                     | 2.42 75                                        | 44.3 620                                                                     | 0.43 6.0                                                        | 468 13148            | 21.3          |              | 19.276            | 10,670             | 4.87        |                    |             |
| W4   | -15.24            | 12/13/94        | 905           |                                  |                     | 2.36 73                                        | 45.2 633                                                                     | 0.00 0.0                                                        | 184 5162             | 21.2          |              | 19.443            | 10,762             |             |                    |             |
| W4   | -15.24            | 1/24/95         | 838           |                                  |                     | 2.31 72                                        | 45.1 631                                                                     | 0.14 2.0                                                        | 473 13277            | 21.1          | 7.891        | 19.320            | 10,694             | 4.92        |                    |             |
| W4   | -15.24            | 2/14/95         | 819           |                                  |                     | 2.25 70                                        | 45.2 634                                                                     | 0.27 3.8                                                        | 479 13442            | 21.2          | 7.904        | 19.380            | 10,727             | 4.92        |                    |             |
| W4   | -15.24            | 3/14/95         | 913           |                                  |                     | 2.25 70                                        | 45.4 636                                                                     | 0.07 1.0                                                        | 471 13237            | 21.3          | 7.859        | 19.288            | 10,676             | 5.01        |                    |             |
| W4   | -15.24            | 4/25/95         | 938           |                                  |                     | 2.22 69                                        | 43.4 608                                                                     | 0.25 3.5                                                        | 476 13369            | 21.1          | 7.871        | 19.668            | 10,887             | 4.86        |                    |             |
| W4   | -15.24            | 5/9/95          | 828           |                                  |                     | 2.19 68                                        | 46.0 644                                                                     | 0.25 3.5                                                        | 510 14332            | 21.4          | 7.852        | 19.134            | 10,591             | 4.97        |                    |             |
| W4   | -15.24            | 6/27/95         | 846           |                                  |                     | 2.17 67                                        | 44.0 617                                                                     | 0.45 6.3                                                        | 480 13470            | 21.4          | 7.859        | 19.312            | 10,690             | 5.01        |                    |             |
| W4   | -15.24            | 7/25/95         | 900           |                                  |                     | 2.06 64                                        | 44.5 623                                                                     | 0.15 2.1                                                        | 482 13546            | 21.3          | 7.849        | 19.272            | 10,668             | 4.91        |                    |             |
| W4   | -15.24            | 8/22/95         | 947           |                                  |                     | 2.01 62                                        | 43.1 603                                                                     | 0.31 4.3                                                        | 481 13506            | 21.4          | 7.852        | 19.353            | 10,712             | 4.79        |                    |             |
| W4   | -15.24            | 9/12/95         | 657           |                                  |                     | 2.18 68                                        | 42.7 598                                                                     | 0.14 2.0                                                        | 477 13386            | 21.3          | 7.899        | 19.685            | 10,896             | 6.36        |                    |             |
| W4   | -15.24            | 10/17/95        | 856           |                                  |                     | 2.14 66                                        | 43.7 613                                                                     | 0.16 2.2                                                        | 488 13700            | 21.5          | 7.880        | 19.250            | 10,655             | 4.86        |                    |             |
| W4   | -15.24            | 11/7/95         | 809           |                                  |                     | 2.14 66                                        | 43.1 604                                                                     | 0.43 6.0                                                        | 473 13296            | 21.3          | 7.910        | 19.628            | 10,865             | 4.78        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 12/6/95         | 823           |                                  |                     | 2.10 65                                        | 44.4 621                                                                     | 0.29 4.1                                                        | 483 13551            | 21.4          | 7.923        | 19.239            | 10,649             | 4.92        |                    |             |
| W4   | -15.24            | 1/30/96         | 858           |                                  |                     | 2.09 65                                        | 44.3 621                                                                     | 0.14 2.0                                                        | 482 13532            | 21.0          | 7.939        | 19.651            | 10,877             | 4.82        |                    |             |
| W4   | -15.24            | 2/27/96         | 905           |                                  |                     | 2.10 65                                        | 43.9 615                                                                     | 0.15 2.1                                                        | 489 13720            | 21.5          | 7.889        | 19.333            | 10,701             | 5.02        |                    |             |
| W4   | -15.24            | 3/13/96         | 939           |                                  |                     | 2.14 66                                        | 43.9 615                                                                     | 0.31 4.3                                                        | 481 13509            | 21.5          | 7.868        | 19.166            | 10,609             | 4.96        |                    |             |
| W4   | -15.24            | 4/2/96          | 924           |                                  |                     | 2.14 66                                        | 40.4 565                                                                     | 0.18 2.5                                                        | 494 13875            | 21.9          | 7.851        | 19.365            | 10,719             | 4.84        |                    |             |
| W4   | -15.24            | 5/15/96         | 910           |                                  |                     | 2.21 68                                        | 46.7 655                                                                     | 0.24 3.4                                                        | 496 13925            | 21.7          | 7.840        | 19.008            | 10,521             | 4.98        |                    |             |
| W4   | -15.24            | 6/18/96         | 831           |                                  |                     | 2.17 67                                        | 43.1 603                                                                     | 0.15 2.1                                                        | 493 13837            | 21.7          | 7.867        | 19.782            | 10,950             | 6.44        |                    |             |
| W4   | -15.24            | 7/17/96         | 906           |                                  |                     | 2.21 68                                        | 45.2 633                                                                     | 0.21 2.9                                                        | 487 13678            | 21.7          | 7.895        | 19.496            | 10,792             | 0.99        |                    |             |
| W4   | -15.24            | 8/6/96          | 915           |                                  |                     | 2.09 65                                        | 47.2 661                                                                     | 0.38 5.3                                                        | 477 13409            | 22.2          | 7.881        | 19.423            | 10,751             | 4.89        |                    |             |
| W4   | -15.24            | 9/4/96          | 915           |                                  |                     | 2.26 70                                        | 65.3 914                                                                     | 0.36 5.0                                                        | 482 13542            | 21.7          | 7.886        | 19.041            | 10,540             | 4.97        |                    |             |
| W4   | -15.24            | 10/9/96         | 918           |                                  |                     | 2.54 79                                        | 62.8 880                                                                     | 0.35 4.9                                                        | 495 13893            | 21.7          | 7.943        | 18.427            | 10,200             | 5.81        |                    |             |
| W4   | -15.24            | 11/6/96         | 906           |                                  |                     | 2.26 70                                        | 51 712                                                                       | 0.27 3.8                                                        | 489 13737            | 21.7          | 7.869        | 18.471            | 10,224             | 5.11        |                    |             |
| W4   | -15.24            | 12/17/96        | 905           |                                  |                     | 2.31 72                                        | 50 702                                                                       | 0.21 2.9                                                        | 458 12871            | 21.8          | 7.896        | 19.257            | 10,659             | 5.12        |                    |             |
| W4   | -15.24            | 1/14/97         | 930           |                                  |                     | 2.36 73                                        | 88 1233                                                                      | 0.18 2.5                                                        | 451 12658            | 21.8          | 7.940        | 19.517            | 10,803             | 5.51        |                    |             |
| W4   | -15.24            | 2/10/97         | 1038          |                                  |                     | 2.40 74                                        | 70 980                                                                       | 0.34 4.8                                                        | 451 12669            | 21.7          | 7.903        | 20.106            | 11,129             | 5.38        |                    |             |
| W4   | -15.24            | 3/10/97         | 1041          |                                  |                     | 3.02 94                                        | 72 1013                                                                      | 0.06 0.8                                                        | 462 12976            | 21.9          | 7.908        | 20.165            | 11,162             | 5.38        |                    |             |
| W4   | -15.24            | 4/23/97         | 903           |                                  |                     | 2.27 70                                        | 64 891                                                                       | 0.46 6.4                                                        | 463 12992            | 21.7          | 7.931        | 20.317            | 11,246             | 4.98        |                    |             |
| W4   | -15.24            | 5/28/97         | 922           |                                  |                     | 2.58 80                                        | 45 627                                                                       | 0.06 0.8                                                        | 418 11726            | 21.1          | 7.924        | 20.833            | 11,532             | 4.52        |                    |             |
| W4   | -15.24            | 6/17/97         | 920           |                                  |                     | 2.11 65                                        | 52 727                                                                       | 0.39 5.5                                                        | 440 12366            | 21.1          | 7.947        | 19.934            | 11,034             | 4.64        |                    |             |
| W4   | -15.24            | 7/15/97         | 912           |                                  |                     | 2.45 76                                        | 67 944                                                                       | 0.05 0.7                                                        | 435 12228            | 21.2          | 7.994        | 19.865            | 10,996             | 4.47        |                    |             |
| W4   | -15.24            | 8/26/97         | 915           |                                  |                     | 2.15 67                                        | 43 601                                                                       | 0.30 4.2                                                        | 440 12346            | 21.0          | 8.079        | 20.537            | 11,368             | 4.48        |                    |             |
| W4   | -15.24            | 9/23/97         | 1109          |                                  |                     | 2.06 64                                        | 44.4 622                                                                     | 0.23 3.2                                                        | 431 12116            | 21.7          | 8.092        | 20.512            | 11,354             | 4.48        |                    |             |
| W4   | -15.24            | 10/15/97        | 851           |                                  |                     | 2.16 67                                        | 43.6 611                                                                     | 0.06 0.8                                                        | 466 13085            | 21.5          | 8.104        | 20.147            | 11,152             | 4.58        |                    |             |
| W4   | -15.24            | 11/4/97         | 1007          |                                  |                     | 2.16 67                                        | 44.9 629                                                                     | 0.18 2.5                                                        | 455 12765            | 21.5          | 8.107        | 20.044            | 11,095             | 4.67        |                    |             |
| W4   | -15.24            | 12/16/97        | 910           |                                  |                     | 2.04 63                                        | 39.0 546                                                                     | 0.05 0.7                                                        | 451 12678            | 21.5          | 8.060        | 20.977            | 11,611             | 4.60        |                    |             |
| W4   | -15.24            | 1/5/98          | 1204          |                                  |                     | 2.13 66                                        | 41.9 586                                                                     | 0.20 2.8                                                        | 455 12775            | 21.5          | 8.074        | 20.199            | 11,181             | 4.69        |                    |             |
| W4   | -15.24            | 2/3/98          | 1021          |                                  |                     | 2.09 65                                        | 42 590                                                                       | 0.01 0.1                                                        | 474 13310            | 21.5          | 8.050        | 19.990            | 11,065             | 4.76        |                    |             |
| W4   | -15.24            | 3/10/98         | 1034          |                                  |                     | 2.15 67                                        | 43 606                                                                       | 0.11 1.5                                                        | 473 13290            | 21.4          | 7.879        | 20.029            | 11,087             | 4.79        |                    |             |
| W4   | -15.24            | 4/14/98         | 858           |                                  |                     | 5.71 177                                       | 676 9467                                                                     | 0.02 0.3                                                        | 355 9979             | 21.5          | 8.757        | 19.912            | 11,022             | 4.28        |                    |             |
| W4   | -15.24            | 5/12/98         | 1028          |                                  |                     | 2.71 84                                        | 75 1053                                                                      | 0.14 2.0                                                        | 453 12711            | 21.5          | 8.090        | 19.721            | 10,916             | 4.64        |                    |             |
| W4   | -15.24            | 6/2/98          | 1023          |                                  |                     | 2.44 76                                        | 50.7 710                                                                     | 0.14 2.0                                                        | 455 12789            | 21.5          | 7.975        | 19.993            | 11,067             | 4.77        |                    |             |
| W4   | -15.24            | 7/14/98         | 1033          |                                  |                     | 18.01 558                                      | 288 4040                                                                     | 7.36 103.1                                                      | 279 7830             | 21.7          | 8.654        | 20.649            | 11,430             | 5.43        |                    |             |
| W4   | -15.24            | 8/11/98         | 1048          |                                  |                     | 7.68 238                                       | 74.3 1041                                                                    | 0.23 3.2                                                        | 376 10546            | 21.6          | 8.360        | 20.797            | 11,512             | 4.01        |                    |             |
| W4   | -15.24            | 9/15/98         | 1122          |                                  |                     | 3.39 105                                       | 51.3 719                                                                     | 0.09 1.3                                                        | 412 11568            | 21.5          | 8.063        | 21.673            | 11,997             | 4.20        |                    |             |
| W4   | -15.24            | 10/13/98        | 959           |                                  |                     | 3.07 95                                        | 41.0 574                                                                     | 0.02 0.3                                                        | 425 11928            | 21.8          | 8.007        | 21.676            | 11,998             | 4.61        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 11/4/98         | 1032          |                                  |                     | 3.04 94                                        | 49 682                                                                       | 0.06 0.8                                                        | 463 13006            | 21.9          | 8.029        | 20.424            | 11,305             | 4.50        |                    |             |
| W4   | -15.24            | 12/16/98        | 1013          |                                  |                     | 2.70 84                                        | 58 809                                                                       | 0.09 1.3                                                        | 459 12891            | 21.7          | 7.975        | 19.612            | 10,856             | 4.69        |                    |             |
| W4   | -15.24            | 1/12/99         | 1048          |                                  |                     | 2.48 77                                        | 47.9 670                                                                     | 0.05 0.7                                                        | 458 12855            | 21.7          | 7.946        | 19.884            | 11,006             | 4.74        |                    |             |
| W4   | -15.24            | 2/3/99          | 1037          |                                  |                     | 3.28 102                                       | 74.7 1046                                                                    | 0.09 1.3                                                        | 434 12183            | 21.5          | 7.987        | 20.493            | 11,343             | 4.29        |                    |             |
| W4   | -15.24            | 3/2/99          | 1039          |                                  |                     | 2.48 77                                        | 55.2 773                                                                     | 0.02 0.3                                                        | 436 12240            | 21.6          | 7.981        | 20.695            | 11,455             | 4.82        |                    |             |
| W4   | -15.24            | 4/6/99          | 1032          |                                  |                     | 2.38 74                                        | 48.4 678                                                                     | 0.11 1.5                                                        | 432 12139            | 21.6          | 7.969        | 21.382            | 11,835             | 4.39        |                    |             |
| W4   | -15.24            | 5/4/99          | 1037          |                                  |                     | 2.53 78                                        | 47.9 671                                                                     | 0.10 1.4                                                        | 440 12369            | 21.5          | 7.959        | 20.424            | 11,305             | 4.55        |                    |             |
| W4   | -15.24            | 6/2/99          | 1020          |                                  |                     | 2.44 76                                        | 40.1 562                                                                     | 0.19 2.7                                                        | 425 11936            | 21.6          | 7.928        | 21.129            | 11,695             | 4.50        |                    |             |
| W4   | -15.24            | 7/7/99          | 1055          |                                  |                     | 2.66 82                                        | 40.3 564                                                                     | 0.01 0.1                                                        | 446 12518            | 21.9          | 7.926        | 20.751            | 11,486             | 4.59        |                    |             |
| W4   | -15.24            | 8/25/99         | 1021          |                                  |                     | 2.48 77                                        | 42.1 590                                                                     | 0.07 1.0                                                        | 452 12689            | 22.1          | 7.970        | 20.644            | 11,427             | 5.03        |                    |             |
| W4   | -15.24            | 9/8/99          | 1031          |                                  |                     | 2.36 73                                        | 39.1 548                                                                     | 0.06 0.8                                                        | 444 12464            | 21.5          | 7.957        | 21.654            | 11,986             | 4.49        |                    |             |
| W4   | -15.24            | 10/6/99         | 1038          |                                  |                     | 2.40 74                                        | 40.2 562                                                                     | 0.07 1.0                                                        | 427 11993            | 21.6          | 7.956        | 20.874            | 11,554             | 4.67        |                    |             |
| W4   | -15.24            | 11/3/99         | 1052          |                                  |                     | 3.41 106                                       | 194 2714                                                                     | 0.13 1.8                                                        | 377 10585            | 21.7          | 8.362        | 20.529            | 11,363             | 4.92        |                    |             |
| W4   | -15.24            | 12/15/99        | 1108          |                                  |                     | 2.66 82                                        | 58.8 824                                                                     | 0.10 1.4                                                        | 427 12001            | 21.7          | 8.026        | 21.058            | 11,656             | 4.05        |                    |             |
| W4   | -15.24            | 1/11/00         | 1044          |                                  |                     | 2.31 72                                        | 48.2 675                                                                     | 0.14 2.0                                                        | 448 12582            | 21.5          | 7.952        | 20.298            | 11,235             | 4.61        |                    |             |
| W4   | -15.24            | 2/14/00         | 1101          |                                  |                     | 2.31 72                                        | 45.3 635                                                                     | 0.05 0.7                                                        | 445 12504            | 21.8          | 7.970        | 20.339            | 11,258             | 4.78        |                    |             |
| W4   | -15.24            | 3/22/00         | 1110          |                                  |                     | 2.20 68                                        | 42.2 591                                                                     | 0.06 0.8                                                        | 449 12610            | 21.5          | 7.954        | 21.111            | 11,685             | 4.44        |                    |             |
| W4   | -15.24            | 4/12/00         | 1053          |                                  |                     | 2.25 70                                        | 40.2 563                                                                     | 0.03 0.4                                                        | 465 13051            | 21.6          | 7.941        | 21.119            | 11,690             | 4.45        |                    |             |
| W4   | -15.24            | 5/17/00         | 1030          |                                  |                     | 2.05 63                                        | 38.0 532                                                                     | 0.11 1.5                                                        | 433 12155            | 21.6          | 7.924        | 21.777            | 12,054             | 7.65        |                    |             |
| W4   | -15.24            | 6/6/00          | 1106          |                                  |                     | 1.94 60                                        | 35.2 493                                                                     | 0.03 0.4                                                        | 427 11987            | 21.6          | 7.917        | 22.335            | 12,363             | 7.52        |                    |             |
| W4   | -15.24            | 7/31/00         | 1055          |                                  |                     | 2.08 64                                        | 38.2 535                                                                     | 0.09 1.3                                                        | 436 12231            | 21.4          | 7.931        | 21.244            | 11,759             | 4.52        |                    |             |
| W4   | -15.24            | 8/30/00         | 1101          |                                  |                     | 2.01 62                                        | 35.7 500                                                                     | 0.05 0.7                                                        | 429 12051            | 21.6          | 7.881        | 22.266            | 12,325             | 4.32        |                    |             |
| W4   | -15.24            | 9/6/00          | 1042          |                                  |                     | 2.00 62                                        | 35.0 490                                                                     | 0.01 0.1                                                        | 435 12217            | 21.9          | 7.878        | 22.183            | 12,279             | 4.27        |                    |             |
| W4   | -15.24            | 10/25/00        | 1008          |                                  |                     | 2.01 62                                        | 38.3 536                                                                     | 0.24 3.4                                                        | 452 12683            | 21.6          | 7.886        | 21.825            | 12,081             | 4.25        |                    |             |
| W4   | -15.24            | 11/14/00        | 1122          |                                  |                     | 2.10 65                                        | 43.5 609                                                                     | 0.17 2.4                                                        | 437 12265            | 21.6          | 7.918        | 21.515            | 11,909             | 4.20        |                    |             |
| W4   | -15.24            | 12/19/00        | 1024          |                                  |                     | 1.88 58                                        | 40.0 560                                                                     | 0.13 1.8                                                        | 454 12759            | 21.5          | 7.905        | 21.299            | 11,790             | 4.31        |                    |             |
| W4   | -15.24            | 1/24/01         | 1016          |                                  |                     | 2.08 64                                        | 38.3 537                                                                     | 0.17 2.4                                                        | 529 14852            | 21.5          | 7.894        | 21.525            | 11,915             | 4.24        |                    |             |
| W4   | -15.24            | 2/7/01          | 1045          |                                  |                     | 2.13 66                                        | 39.9 559                                                                     | 0.14 2.0                                                        | 462 12984            | 21.6          | 7.925        | 20.931            | 11,586             | 4.37        |                    |             |
| W4   | -15.24            | 3/12/01         | 1030          |                                  |                     | 2.03 63                                        | 37.2 521                                                                     | 0.03 0.4                                                        | 441 12386            | 21.8          | 7.871        | 21.373            | 11,831             | 4.50        |                    |             |
| W4   | -15.24            | 4/18/01         | 1020          |                                  |                     | 2.14 66                                        | 40.7 570                                                                     | 0.04 0.6                                                        | 368 10341            | 21.6          | 7.862        | 20.888            | 11,562             | 4.76        |                    |             |
| W4   | -15.24            | 5/14/01         | 857           |                                  |                     | 3.12 97                                        | 39.0 547                                                                     | 0.16 2.2                                                        | 454 12751            | 21.5          | 7.871        | 21.287            | 11,783             | 4.65        |                    |             |
| W4   | -15.24            | 6/13/01         | 1038          |                                  |                     | 2.20 68                                        | 43.7 612                                                                     | 0.04 0.6                                                        | 427 11986            | 21.6          | 8.002        | 21.522            | 11,913             | 4.71        |                    |             |
| W4   | -15.24            | 7/25/01         | 957           |                                  |                     | 2.22 69                                        | 41.7 584                                                                     | 0.09 1.3                                                        | 445 12501            | 21.9          | 7.934        | 21.015            | 11,632             | 4.70        |                    |             |
| W4   | -15.24            | 8/20/01         | 939           |                                  |                     | 12.3 381                                       | 74.9 1049                                                                    | 0.15 2.1                                                        | 213 5985             | 21.7          | 7.907        | 21.177            | 11,722             | 4.83        |                    |             |
| W4   | -15.24            | 9/18/01         | 930           |                                  |                     | 2.14 66                                        | 42.5 595                                                                     | 0.19 2.7                                                        | 457 12824            | 22.1          | 7.899        | 20.880            | 11,558             | 4.88        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 10/9/01         | 1022          |                                  |                     | 2.04 63                                        | 39.0 547                                                                     | 0.07 1.0                                                        | 443 12442            | 21.8          | 7.878        | 21.316            | 11,799             | 4.79        |                    |             |
| W4   | -15.24            | 11/6/01         | 930           |                                  |                     | 1.94 60                                        | 39.8 558                                                                     | 0.05 0.7                                                        | 455 12776            | 22.1          | 7.879        | 21.318            | 11,800             | 4.80        |                    |             |
| W4   | -15.24            | 12/18/01        | 938           |                                  |                     | 1.65 51                                        | 38.5 539                                                                     | 0.18 2.5                                                        | 368 10335            | 21.6          | 7.870        | 21.195            | 11,732             | 4.69        |                    |             |
| W4   | -15.24            | 1/8/02          | 954           |                                  |                     | 2.00 62                                        | 37.7 528                                                                     | 0.19 2.7                                                        | 450 12647            | 21.5          | 7.865        | 21.662            | 11,990             | 4.27        |                    |             |
| W4   | -15.24            | 2/27/02         | 952           |                                  |                     | 2.08 64                                        | 40.8 572                                                                     | 0.06 0.8                                                        | 461 12939            | 21.4          | 7.878        | 21.514            | 11,909             | 4.51        |                    |             |
| W4   | -15.24            | 3/19/02         | 1004          |                                  |                     | 1.96 61                                        | 37.3 522                                                                     | 0.11 1.5                                                        | 443 12431            | 21.5          | 7.904        | 21.651            | 11,984             | 4.34        |                    |             |
| W4   | -15.24            | 4/9/02          | 953           |                                  |                     | 2.00 62                                        | 37.5 526                                                                     | 0.03 0.4                                                        | 441 12386            | 21.3          | 7.863        | 21.613            | 11,963             | 4.35        |                    |             |
| W4   | -15.24            | 5/21/02         | 950           |                                  |                     | 1.80 56                                        | 37.1 520                                                                     | 0.03 0.4                                                        | 441 12372            | 21.7          | 7.879        | 21.416            | 11,854             | 4.72        |                    |             |
| W4   | -15.24            | 6/18/02         | 1010          |                                  |                     | 2.01 62                                        | 38.1 533                                                                     | 0.13 1.8                                                        | 445 12484            | 21.5          | 7.868        | 21.690            | 12,006             | 4.59        |                    |             |
| W4   | -15.24            | 7/17/02         | 949           |                                  |                     | 2.04 63                                        | 40.2 563                                                                     | 0.11 1.5                                                        | 457 12841            | 21.9          | 7.887        | 21.184            | 11,726             | 4.81        |                    |             |
| W4   | -15.24            | 8/22/02         | 955           |                                  |                     | 2.00 62                                        | 35.4 495                                                                     | 0.13 1.8                                                        | 434 12181            | 21.5          | 7.914        | 22.370            | 12,382             | 4.25        |                    |             |
| W4   | -15.24            | 9/24/02         | 950           |                                  |                     | 2.06 64                                        | 42.9 601                                                                     | 0.27 3.8                                                        | 457 12829            | 21.8          | 7.917        | 21.441            | 11,868             | 4.69        |                    |             |
| W4   | -15.24            | 10/16/02        | 1014          |                                  |                     | 2.00 62                                        | 36.4 509                                                                     | 0.23 3.2                                                        | 445 12504            | 21.6          | 7.890        | 21.825            | 12,081             | 4.43        |                    |             |
| W4   | -15.24            | 11/6/02         | 1005          |                                  |                     | 2.02 63                                        | 39.4 552                                                                     | 0.18 2.5                                                        | 359 10077            | 21.9          | 7.879        | 21.380            | 11,834             | 4.70        |                    |             |
| W4   | -15.24            | 12/19/02        | 1037          |                                  |                     | 1.99 62                                        | 37.6 526                                                                     | 0.10 1.4                                                        | 445 12484            | 21.5          | 7.876        | 21.567            | 11,938             | 4.52        |                    |             |
| W4   | -15.24            | 1/22/03         | 1024          |                                  |                     | 1.88 58                                        | 29.6 415                                                                     | 0.06 0.8                                                        | 427 12001            | 21.4          | 7.881        | 23.002            | 12,732             | 4.25        |                    |             |
| W4   | -15.24            | 2/20/03         | 951           |                                  |                     | 1.92 59                                        | 39.2 550                                                                     | 0.26 3.6                                                        | 447 12540            | 21.8          | 7.885        | 21.642            | 11,979             | 4.54        |                    |             |
| W4   | -15.24            | 3/18/03         | 930           |                                  |                     | 1.96 61                                        | 39.8 557                                                                     | 0.11 1.5                                                        | 463 13006            | 22.3          | 7.884        | 21.092            | 11,675             | 4.67        |                    |             |
| W4   | -15.24            | 4/29/03         | 941           |                                  |                     | 2.23 69                                        | 43.1 603                                                                     | 0.21 2.9                                                        | 479 13461            | 21.8          | 7.906        | 20.117            | 11,135             | 4.92        |                    |             |
| W4   | -15.24            | 5/13/03         | 1017          |                                  |                     | 2.12 66                                        | 39.6 555                                                                     | 0.27 3.8                                                        | 461 12933            | 21.9          | 7.906        | 20.883            | 11,559             | 5.43        |                    |             |
| W4   | -15.24            | 6/5/03          | 940           |                                  |                     | 2.14 66                                        | 44.3 620                                                                     | 0.20 2.8                                                        | 457 12846            | 22.0          | 7.912        | 20.769            | 11,496             | 4.74        |                    |             |
| W4   | -15.24            | 7/31/03         | 1003          |                                  |                     | 2.09 65                                        | 41.1 576                                                                     | 0.08 1.1                                                        | 461 12954            | 21.5          | 7.883        | 20.883            | 11,559             | 4.71        |                    |             |
| W4   | -15.24            | 8/27/03         | 1008          |                                  |                     | 2.16 67                                        | 40.0 560                                                                     | 0.40 5.6                                                        | 457 12827            | 21.7          | 7.905        | 21.100            | 11,679             | 4.71        |                    |             |
| W4   | -15.24            | 9/17/03         | 947           |                                  |                     | 2.58 80                                        | 37.6 526                                                                     | 18.9 264.7                                                      | 441 12394            | 22.3          | 7.830        | 21.970            | 12,161             | 4.26        |                    |             |
| W4   | -15.24            | 10/7/03         | 942           |                                  |                     | 2.26 70                                        | 46.7 654                                                                     | 0.67 9.4                                                        | 470 13200            | 22.3          | 7.873        | 20.557            | 11,379             | NA          |                    |             |
| W4   | -15.24            | 11/4/03         | 935           |                                  |                     | 2.18 68                                        | 43.0 603                                                                     | 0.48 6.7                                                        | 462 12984            | 22.1          | 7.883        | 20.547            | 11,373             |             |                    |             |
| W4   | -15.24            | 11/14/03        | 1119          |                                  |                     |                                                |                                                                              |                                                                 |                      | 22.4          |              |                   |                    | 4.61        |                    |             |
| W4   | -15.24            | 12/16/03        | 930           |                                  |                     | 2.11 65                                        | 39.7 557                                                                     | 1.00 14.0                                                       | 453 12714            | 22.0          | 7.885        | 21.325            | 11,804             | 4.59        |                    |             |
| W4   | -15.24            | 1/27/04         | 949           |                                  |                     | 2.04 63                                        | 43.4 607                                                                     | 0.31 4.3                                                        | 461 12933            | 21.8          | 7.880        | 20.828            | 11,529             | 4.81        |                    |             |
| W4   | -15.24            | 2/10/04         | 940           |                                  |                     | 2.26 70                                        | 41.1 576                                                                     | 0.21 2.9                                                        | 435 12203            | 21.9          | 7.870        | 21.002            | 11,625             | 4.56        |                    |             |
| W4   | -15.24            | 3/15/04         | 949           |                                  |                     | 2.44 76                                        | 46.6 652                                                                     | 0.11 1.5                                                        | 465 13049            | 22.2          | 7.896        | 20.671            | 11,442             | 4.59        |                    |             |
| W4   | -15.24            | 4/21/04         | 900           |                                  |                     | 2.18 68                                        | 41.6 583                                                                     | 0.04 0.6                                                        | 464 13026            | 21.2          | 7.879        | 21.324            | 11,803             | 4.52        |                    |             |
| W4   | -15.24            | 5/12/04         | 855           |                                  |                     | 2.06 64                                        | 37.3 522                                                                     | 0.24 3.4                                                        | 448 12585            | 21.9          | 7.892        | 21.37             | 11,829             | 4.67        |                    |             |
| W4   | -15.24            | 6/7/04          | 849           |                                  |                     | 2.06 64                                        | 33.9 475                                                                     | 5.21 73.0                                                       | 427 11993            | 22.0          | 7.834        | 22.27             | 12,327             | 4.64        |                    |             |
| W4   | -15.24            | 7/8/04          | 956           |                                  |                     | 2.10 65                                        | 37.4 523                                                                     | 0.07 1.0                                                        | 441 12394            | 22.2          | 7.903        | 21.85             | 12,095             | 4.42        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 8/24/04         | 925           |                                  |                     | 2.28 71                                        | 36.3 508                                                                     | 4.7 65.4                                                        | 427 11978            | 22.2          | 7.847        | 21.66             | 11,989             | 4.39        |                    |             |
| W4   | -15.24            | 9/28/04         | 947           |                                  |                     | 2.30 71                                        | 39.9 559                                                                     | 5.0 69.3                                                        | 439 12327            | 22.3          | 7.829        | 21.77             | 12,050             | 4.49        |                    |             |
| W4   | -15.24            | 10/5/04         | 1034          |                                  |                     | 1.84 57                                        | 35.9 503                                                                     | 0.30 4.2                                                        | 420 11802            | 22.2          | 7.876        | 22.45             | 12,427             | 4.36        |                    |             |
| W4   | -15.24            | 11/8/04         | 925           |                                  |                     | 2.06 64                                        | 40.3 565                                                                     | 0.27 3.8                                                        | 461 12933            | 22.0          | 7.868        | 20.11             | 11,131             | 4.95        |                    |             |
| W4   | -15.24            | 12/7/04         | 938           |                                  |                     | 1.94 60                                        | 36.7 514                                                                     | 0.19 2.7                                                        | 429 12046            | 22.0          | 7.883        | 21.86             | 12,100             | 4.39        |                    |             |
| W4   | -15.24            | 1/11/05         | 928           |                                  |                     | 2.06 64                                        | 44.5 623                                                                     | 0.10 1.4                                                        | 489 13734            | 22.2          | 7.941        | 20.796            | 11,511             | 4.85        |                    |             |
| W4   | -15.24            | 2/8/05          | 932           |                                  |                     | 2.10 65                                        | 48.5 679                                                                     | 0.19 2.7                                                        | 469 13178            | 22.3          | 7.944        | 20.212            | 11,188             | 4.94        |                    |             |
| W4   | -15.24            | 3/16/05         | 1004          |                                  |                     | 2.33 72                                        | 42.7 598                                                                     | 5.1 70.9                                                        | 462 12984            | 22.2          | 7.883        | 20.667            | 11,440             | 5.10        |                    |             |
| W4   | -15.24            | 4/18/05         | 1019          |                                  |                     | 2.08 64                                        | 45.4 636                                                                     | 0.9 12.6                                                        | 462 12973            | 22.6          | 7.934        | 20.609            | 11,408             | 5.48        |                    |             |
| W4   | -15.24            | 5/24/05         | 929           |                                  |                     | 2.26 70                                        | 47.2 661                                                                     | 0.20 2.8                                                        | 466 13074            | 22.6          | 7.879        | 20.120            | 11,137             | 4.58        |                    |             |
| W4   | -15.24            | 6/13/05         | 950           |                                  |                     | 2.15 67                                        | 43.9 615                                                                     | 5.6 78.3                                                        | 463 12995            | 22.8          | 7.860        | 20.718            | 11,468             | 4.45        |                    |             |
| W4   | -15.24            | 7/11/05         | 945           |                                  |                     | 2.34 72                                        | 39.3 551                                                                     | 3.2 44.1                                                        | 454 12756            | 22.6          | 7.844        | 21.385            | 11,837             | 4.52        |                    |             |
| W4   | -15.24            | 8/10/05         | 910           |                                  |                     | 2.48 77                                        | 41.8 586                                                                     | 0.11 1.5                                                        | 459 12883            | 22.6          | 7.898        | 20.776            | 11,500             | 6.07        |                    |             |
| W4   | -15.24            | 9/21/05         | 905           |                                  |                     | 3.90 121                                       | 43.3 607                                                                     | 1.32 18.5                                                       | 458 12858            | 22.3          | 7.886        | 20.745            | 11,483             | 4.41        |                    |             |
| W4   | -15.24            | 10/18/05        | 931           |                                  |                     | 2.51 78                                        | 44.6 624                                                                     | 0.19 2.7                                                        | 448 12588            | 22.3          | 8.383        | 20.689            | 11,452             | 4.57        |                    |             |
| W4   | -15.24            | 11/3/05         | 850           |                                  |                     | 2.20 68                                        | 47.2 661                                                                     | 0.43 6.0                                                        | 450 12647            | 22.1          | 7.926        | 21.177            | 11,722             | 4.47        |                    |             |
| W4   | -15.24            | 12/21/05        | 1001          |                                  |                     | 3.72 115                                       | 40.5 568                                                                     | 26.8 375.4                                                      | 439 12338            | 23.6          | 7.840        | 21.978            | 12,165             | 3.13        |                    |             |
| W4   | -15.24            | 1/24/06         | 910           |                                  |                     | 3.12 97                                        | 44.6 625                                                                     | 17.5 245.1                                                      | 470 13197            | 22.4          | 7.867        | 20.581            | 11,392             | 4.35        |                    |             |
| W4   | -15.24            | 2/15/06         | 903           |                                  |                     | 2.43 75                                        | 44.4 622                                                                     | 6.15 86.1                                                       | 451 12675            | 22.0          | 7.879        | 21.126            | 11,694             | 4.44        |                    |             |
| W4   | -15.24            | 3/21/06         | 850           |                                  |                     | 2.38 74                                        | 41.8 585                                                                     | 7.70 107.9                                                      | 464 13032            | 22.2          | 7.892        | 20.973            | 11,609             | 7.86        |                    |             |
| W4   | -15.24            | 4/19/06         | 957           |                                  |                     | 2.52 78                                        | 42.2 591                                                                     | 8.0 112.1                                                       | 458 12863            | 22.1          | 7.869        | 21.156            | 11,710             | 6.89        |                    |             |
| W4   | -15.24            | 4/26/06         | 905           |                                  |                     | 2.54 79                                        | 41.8 585                                                                     | 8.9 124.7                                                       | 451 12667            | 21.5          | 7.874        | 21.271            | 11,774             | 5.94        |                    |             |
| W4   | -15.24            | 5/3/06          |               |                                  |                     | 2.55 79                                        | 43.9 615                                                                     | 10 140.1                                                        | 447 12554            | 21.6          | 7.872        | 21.406            | 11,849             | 4.63        |                    |             |
| W4   | -15.24            | 5/10/06         |               |                                  |                     | 2.38 74                                        | 42.3 592                                                                     | 6.3 88.2                                                        | 466 13088            | 21.9          | 7.877        | 21.074            | 11,665             | 4.59        |                    |             |
| W4   | -15.24            | 5/16/06         |               |                                  |                     | 2.25 70                                        | 42.1 590                                                                     | 4.1 57.4                                                        | 457 12835            | 22.0          | 7.898        | 21.198            | 11,734             | 6.07        |                    |             |
| W4   | -15.24            | 5/23/06         | 937           |                                  |                     | 2.34 72                                        | 43.7 612                                                                     | 9.8 137.3                                                       | 447 12554            | 21.8          | 7.856        | 21.077            | 11,667             | 4.64        |                    |             |
| W4   | -15.24            | 6/27/06         | 942           |                                  |                     | 2.76 85                                        | 46.3 649                                                                     | 8.1 113.5                                                       | 440 12358            | 21.8          | 7.825        | 21.842            | 12,090             | 4.43        |                    |             |
| W4   | -15.24            | 7/18/06         | 937           |                                  |                     | 2.31 72                                        | 41.4 580                                                                     | 4.3 60.2                                                        | 443 12442            | 22.3          | 7.874        | 21.300            | 11,790             | 4.71        |                    |             |
| W4   | -15.24            | 8/8/06          | 915           |                                  |                     | 2.47 77                                        | 43.5 609                                                                     | 5.8 81.2                                                        | 454 12751            | 21.7          | 7.852        | 21.378            | 11,833             | 4.63        |                    |             |
| W4   | -15.24            | 9/19/06         | 1015          |                                  |                     | 2.04 63                                        | 39.9 559                                                                     | 0.58 8.1                                                        | 448 12582            | 22.0          | 7.856        | 21.296            | 11,788             | 4.58        |                    |             |
| W4   | -15.24            | 10/24/06        | 953           |                                  |                     | 2.02 63                                        | 40.3 564                                                                     | 0.37 5.2                                                        | 454 12751            | 22.5          | 7.888        | 21.174            | 11,720             | 4.63        |                    |             |
| W4   | -15.24            | 11/28/06        | 934           |                                  |                     | 2.02 63                                        | 38.8 543                                                                     | 0.52 7.3                                                        | 445 12498            | 22.0          | 7.875        | 21.173            | 11,720             | 4.67        |                    |             |
| W4   | -15.24            | 12/12/06        | 929           |                                  |                     | 1.88 58                                        | 37.4 524                                                                     | 0.21 2.9                                                        | 438 12301            | 22.0          | 7.88         | 21.422            | 11,858             | 4.55        |                    |             |
| W4   | -15.24            | 1/9/07          | 955           |                                  |                     | 2.02 63                                        | 42.4 594                                                                     | 0.28 3.9                                                        | 441 12386            | 22.0          | 7.891        | 21.074            | 11,665             | 4.64        |                    |             |
| W4   | -15.24            | 2/22/07         | 936           |                                  |                     | 1.92 59                                        | 40.7 570                                                                     | 0.31 4.3                                                        | 454 12751            | 21.9          | 7.871        | 21.020            | 11,635             | 4.80        |                    |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 3/6/07          | 953           |                                  |                     | 2.02 63                                        | 42.1 590                                                                     | 0.35 4.9                                                        | 465 13060            | 22.3          | 7.894        | 20.725            | 11,472             | 4.90        |                    |             |
| W4   | -15.24            | 4/11/07         | 1106          |                                  |                     | 2.02 63                                        | 40.9 573                                                                     | 0.19 2.7                                                        | 471 13228            | 22.3          | 7.925        | 20.516            | 11,356             | 4.76        |                    |             |
| W4   | -15.24            | 5/3/07          | 939           |                                  |                     | 2.14 66                                        | 38.8 543                                                                     | 0.23 3.2                                                        | 472 13256            | 21.9          | 7.911        | 20.637            | 11,423             | 4.52        |                    |             |
| W4   | -15.24            | 6/19/07         | 906           |                                  |                     | 2.00 62                                        | 41.3 579                                                                     | 0.22 3.1                                                        | 450 12638            | 22.2          | 7.909        | 21.267            | 11,772             | 4.74        |                    |             |
| W4   | -15.24            | 7/25/07         | 1445          | -5                               | 0.64 High           | 1.81 56                                        | 41.3 578                                                                     | 5.70 80                                                         | 468 13143            | 21.6          | 7.81         | 21.69             | 12,006             | 4.32        |                    |             |
| W4   | -15.24            | 8/28/07         | 950           | -7                               | 0.00 Low            | 2.41 75                                        | 47.5 665                                                                     | 0.04 0.5                                                        | 594 16676            | 21.6          | 7.78         | 21.03             | 11,641             | 4.33        |                    |             |
| W4   | -15.24            | 9/13/07         | 1240          | -7                               | 0.15 Flood          | 1.97 61                                        | 41.3 578                                                                     | 1.33 19                                                         | 491 13789            | 22.5          | 7.84         | 21.28             | 11,779             | 4.29        |                    |             |
| W4   | -15.24            | 10/24/07        | 1006          | -7                               | 0.09 Low            | 1.96 61                                        | 44.7 627                                                                     | 0.17 2.4                                                        | 437 12276            | 21.9          | 7.82         | 21.08             | 11,668             | 4.07        |                    |             |
| W4   | -15.24            | 11/26/07        | 1329          | -8                               | 0.06 Low            | 1.87 58                                        | 44.2 619                                                                     | 0.44 6.1                                                        | 482 13537            | 21.9          | 7.85         | 21.18             | 11,724             | 4.06        |                    |             |
| W4   | -15.24            | 12/20/07        | 1019          | -7                               | 0.23 Low            | 1.40 43                                        | 17.3 243                                                                     | 0.74 10                                                         | 443 12439            | 21.5          | 7.87         | 20.47             | 11,331             | 4.28        |                    |             |
| W4   | -15.24            | 1/29/08         | 954           | -7                               | 0.24 Ebb            | 1.97 61                                        | 45.3 635                                                                     | 0.04 0.5                                                        | 341 9580             | 21.6          | 7.74         | 20.38             | 11,281             | 4.42        |                    |             |
| W4   | -15.24            | 2/27/08         | 1420          | -7                               | 0.06 Low            | 2.11 65                                        | 46.0 644                                                                     | 0.49 6.8                                                        | 453 12719            | 22.0          | 7.76         | 20.15             | 11,154             | 4.55        |                    |             |
| W4   | -15.24            | 3/20/08         | 1432          | -7                               | 0.30 Flood          | 1.39 43                                        | 66.7 934                                                                     | 0.26 3.6                                                        | 197 5534             | 21.8          | 7.79         | 21.19             | 11,729             | 4.15        |                    |             |
| W4   | -15.24            | 4/29/08         | 1048          | -7                               | 0.18 Flood          | 1.84 57                                        | 42.6 597                                                                     | 0.09 1.2                                                        | 428 12031            | 22.2          | 7.80         | 20.91             | 11,574             | 4.73        |                    |             |
| W4   | -15.24            | 5/29/08         | 1137          |                                  | 0.37 Flood          | 1.77 55                                        | 45.4 636                                                                     | 0.12 1.7                                                        | 458 12871            | 22.5          | 7.83         | 20.56             | 11,380             | 4.58        |                    |             |
| W4   | -15.24            | 6/10/08         | 1038          | -7                               | 0.30 Flood          | 2.75 85                                        | 41.6 583                                                                     | 2.31 32                                                         | 506 14211            | 22.3          | 7.78         | 21.02             | 11,635             | 5.20        |                    |             |
| W4   | -15.24            | 6/19/08         | 1241          | -7                               | 0.12 Flood          | 1.69 52                                        | 42.6 597                                                                     | 0.72 10                                                         | 444 12459            | 22.3          | 7.70         | 21.07             | 11,663             | 4.65        | 0.31               |             |
| W4   | -15.24            | 7/24/08         | 1129          | -7                               | 0.43 Ebb            | 1.75 54                                        | 45.4 635                                                                     | 0.20 2.8                                                        | 407 11424            | 21.6          | 7.75         | 21.68             | 12,000             | 4.57        |                    |             |
| W4   | -15.24            | 8/29/08         | 1702          |                                  | 0.67 Ebb            | 1.47 46                                        | 36.5 511                                                                     | 0.24 3.3                                                        | 388 10902            | 21.6          | 7.72         | 21.94             | 12,144             | 2.90        |                    |             |
| W4   | -15.24            | 9/19/08         | 1102          | -7                               | 0.43 Ebb            | 1.59 49                                        | 37.4 523                                                                     | 0.41 5.8                                                        | 295 8281             | 24.7          | 7.67         | 21.28             | 11,779             | 4.28        | 0.17               |             |
| W4   | -15.24            | 10/28/08        | 958           | -7.14                            | 0.15 Ebb            | 2.01 62                                        | 43.6 611                                                                     | 0.31 4.4                                                        | 421 11827            | 23.4          | 7.55         | 21.08             | 11,668             | 4.22        | 0.14               |             |
| W4   | -15.24            | 11/13/08        | 1045          | -7.2                             | 0.09 Ebb            | 1.76 54                                        | 43.6 611                                                                     | 0.22 3.1                                                        | 398 11166            | 24.9          | 7.94         | 21.04             | 11,646             | 4.14        | 0.10               |             |
| W4   | -15.24            | 12/15/08        | 1129          | -6.94                            | 0.18 Ebb            | 2.06 64                                        | 47.9 671                                                                     | 0.15 2.1                                                        | 403 11330            | 23.3          | 7.98         | 20.71             | 11,464             | 4.46        |                    |             |
| W4   | -15.24            | 1/22/09         | 943           | -7.22                            | 0.09 Low            | 2.01 62                                        | 51.1 715                                                                     | 1.44 20                                                         | 426 11952            | 23.3          | 7.92         | 19.92             | 11,026             | 4.59        | 0.22               |             |
| W4   | -15.24            | 2/24/09         | 857           | -7.16                            | 0.09 Ebb            | 1.80 56                                        | 47.7 668                                                                     | 0.69 9.7                                                        | 455 12781            | 22.2          | 7.65         | 20.24             | 11,203             | 4.62        | 8.10               |             |
| W4   | -15.24            | 3/16/09         | 941           | -7.19                            | 0.12 Ebb            | 1.43 44                                        | 36.7 515                                                                     | 0.13 1.8                                                        | 292 8188             | 23.1          | 7.64         | 20.24             | 11,203             | 4.47        | 0.45               |             |
| W4   | -15.24            | 4/20/09         | 1628          | -7.07                            | 0.24 Ebb            | 2.35 73                                        | 43.1 604                                                                     | 0.43 6.0                                                        | 349 9801             | 23.4          | 7.72         | 20.70             | 11,458             | 4.65        | 1.98               |             |
| W4   | -15.24            | 5/21/09         | 1534          | -6.79                            | 0.58 Ebb            | 1.83 57                                        | 36.6 513                                                                     | 0.21 3.0                                                        | 444 12468            | 21.5          | 7.86         | 22.49             | 12,449             | 4.26        | 0.08               |             |
| W4   | -15.24            | 6/18/09         | 1306          | -6.83                            | 0.61 High           | 1.83 57                                        | 33.0 463                                                                     | 0.34 4.8                                                        | 242 6790             | 21.6          | 7.86         | 23.50             | 13,008             | 4.19        | 0.04               |             |
| W4   | -15.24            | 7/14/09         | 757           | -7.18                            | 0.37 Flood          | 1.70 53                                        | 32.7 458                                                                     | 0.16 2.2                                                        | 174 4895             | 21.4          | 7.97         | 21.44             | 11,868             | 4.39        | 0.05               |             |
| W4   | -15.24            | 8/19/09         | 1021          | -7.24                            | 0.09 Flood          | 2.17 67                                        | 41.7 584                                                                     | 0.86 12.1                                                       | 411 11536            | 21.7          | 7.81         | 21.74             | 12,034             | 3.98        | 0.06               |             |
| W4   | -15.24            | 9/24/09         | 844           | -6.9                             | 0.61 High           | 2.37 73                                        | 40.9 573                                                                     | 0.50 7.0                                                        | 217 6104             | 21.6          | 8.23         | 21.47             | 11,884             | 4.28        | 0.04               |             |
| W4   | -15.24            | 10/22/09        | 1452          | -7.21                            | 0.37 Ebb            | 1.50 47                                        | 23.8 334                                                                     | 0.49 6.8                                                        | 104 2928             | 21.9          | 7.86         | 21.29             | 11,785             | 4.04        | 0.05               |             |
| W4   | -15.24            | 11/16/09        | 1535          | -7.16                            | 0.21 High           | 2.51 78                                        | 41.8 586                                                                     | 0.89 12.4                                                       | 428 12017            | 21.8          | 7.88         | 21.48             | 11,890             | 4.06        | 0.03               |             |
| W4   | -15.24            | 12/7/09         | 1545          | -7.36                            | 0.06 Low            | 2.62 81                                        | 56.0 784                                                                     | 0.74 10.4                                                       | 443 12445            | 23.0          | 7.87         | 20.96             | 11,602             | 4.28        | 0.02               |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 1/5/10          | 1345          | -7.29                            | 0.00 Ebb            | 1.78 55                                        | 33.1 463                                                                     | 1.50 21.0                                                       | 338 9488             | 22.0          | 7.86         | 24.74             | 13,694             | 3.98        | 0.20               |             |
| W4   | -15.24            | 2/1/10          | 1330          | -7.23                            | 0.00 Ebb            | 1.87 58                                        | 36.4 510                                                                     | 0.86 12.0                                                       | 318 8922             | 22.0          | 7.97         | 24.66             | 13,650             | 3.80        | 0.23               |             |
| W4   | -15.24            | 3/9/10          | 1433          | -7.22                            | 0.15 High           | 1.68 52                                        | 31.1 435                                                                     | 0.29 4.0                                                        | 381 10713            | 22.8          | 7.86         | 24.53             | 13,578             | 3.72        | 0.14               |             |
| W4   | -15.24            | 4/6/10          | 1304          | -7.25                            | 0.15 High           | 2.13 66                                        | 31.7 444                                                                     | 0.50 7.0                                                        | 365 10244            | 22.9          | 7.89         | 24.80             | 13,727             | 3.76        | 0.30               |             |
| W4   | -15.24            | 5/11/10         | 1335          | -6.94                            | 0.46 Flood          | 1.42 44                                        | 27.1 379                                                                     | 1.50 21.0                                                       | 360 10102            | 22.9          | 7.93         | 25.13             | 13,910             | 3.97        | 0.07               |             |
| W4   | -15.24            | 6/15/10         | 1419          | -6.86                            | 0.15 Flood          | 1.52 47                                        | 27.3 383                                                                     | 0.57 8.0                                                        | 358 10051            | 21.0          | 7.96         | 25.38             | 14,048             | 3.75        | 0.13               |             |
| W4   | -15.24            | 7/13/10         | 1319          | -7.22                            | 0.15 Flood          | 1.39 43                                        | 28.9 405                                                                     | 0.57 8.0                                                        | 386 10836            | 21.0          | 7.89         | 25.33             | 14,021             | 3.71        | 0.04               |             |
| W4   | -15.24            | 8/3/10          | 1311          | -6.85                            | 0.49 Ebb            | 1.65 51                                        | 29.9 419                                                                     | 0.29 4.0                                                        | 386 10852            | 21.2          | 7.93         | 24.75             | 13,700             | 3.70        | 0.08               |             |
| W4   | -15.24            | 9/14/10         | 1326          | -7.07                            | 0.40 Ebb            | 1.55 48                                        | 31.7 444                                                                     | 0.46 6.4                                                        | 412 11567            | 21.0          | 7.87         | 24.75             | 13,700             | 4.03        | 0.07               |             |
| W4   | -15.24            | 10/12/10        | 1406          | -7.03                            | 0.30 Ebb            | 1.42 44                                        | 28.7 402                                                                     | 0.06 0.9                                                        | 397 11140            | 21.0          | 7.91         | 25.20             | 13,949             | 3.92        | 0.07               |             |
| W4   | -15.24            | 11/16/10        | 1253          | -6.91                            | 0.40 High           | 1.65 51                                        | 31.8 446                                                                     | 0.13 1.8                                                        | 405 11368            | 21.0          | 7.89         | 24.42             | 13,517             | 3.92        | 0.10               |             |
| W4   | -15.24            | 12/14/10        | 1324          | -6.99                            | 0.24 Ebb            | 1.71 53                                        | 35.5 497                                                                     | 0.24 3.3                                                        | 430 12078            | 21.1          | 7.93         | 23.34             | 12,919             | 4.04        | 0.05               |             |
| W4   | -15.24            | 1/4/11          | 1309          | -7.28                            | 0.06 Flood          | 1.81 56                                        | 35.1 492                                                                     | 0.29 4.0                                                        | 412 11560            | 21.1          | 7.87         | 23.57             | 13,047             | 3.89        | 0.12               |             |
| W4   | -15.24            | 2/1/11          | 1020          | -7.17                            | 0.03 Low            | 1.84 57                                        | 35.1 491                                                                     | 0.14 2.0                                                        | 417 11703            | 21.2          | 7.84         | 23.68             | 13,107             | 4.02        | 0.16               |             |
| W4   | -15.24            | 4/5/11          | 1331          | -7.19                            | 0.12 Flood          | 1.65 51                                        | 30.3 425                                                                     | 0.18 2.5                                                        | 370 10387            | 21.3          | 7.82         | 23.99             | 13,279             | 3.42        | 0.08               |             |
| W4   | -15.24            | 7/12/11         | 1324          | -6.92                            | 0.61 Flood          | 1.49 46                                        | 28.3 396                                                                     | 0.10 1.4                                                        | 375 10541            | 21.0          | 7.84         | 25.49             | 14,109             | 3.50        | 0.02               |             |
| W4   | -15.24            | 10/10/11        | 1503          | -6.87                            | 0.46 High           | 1.39 43                                        | 26.3 369                                                                     | 0.09 1.3                                                        | 355 9976             | 20.9          | 7.86         | 26.07             | 14,430             | 3.65        | 0.05               |             |
| W4   | -15.24            | 1/10/12         | 1358          | -7.33                            | 0.03 Flood          | 1.36 42                                        | 28.3 397                                                                     | 0.22 3.1                                                        | 369 10366            | 21.2          | 7.86         | 25.02             | 13,849             | 3.84        | 0.21               |             |
| W4   | -15.24            | 5/1/12          | 1403          | -6.85                            | 0.40 Ebb            | 1.68 52                                        | 28.2 395                                                                     | 0.12 1.7                                                        | 392 11013            | 21.6          | 7.79         | 25.63             | 14,187             | 3.51        | 0.04               |             |
| W4   | -15.24            | 7/18/12         | 1330          | -6.89                            | 0.52 Flood          | 1.49 46                                        | 28.0 392                                                                     | 0.26 3.7                                                        | 376 10553            | 21.3          | 7.90         | 25.91             | 14,342             | 3.70        | 0.68               |             |
| W4   | -15.24            | 10/16/12        | 1318          | -7.15                            | 0.15 Flood          | 1.42 44                                        | 28.8 403                                                                     | 0.34 4.7                                                        | 373 10483            | 21.0          | 7.83         | 25.87             | 14,320             | 3.65        | 0.07               |             |
| W4   | -15.24            | 1/8/13          | 1409          | -7.04                            | 0.21 High           | 1.29 40                                        | 31.5 441                                                                     | 0.42 5.9                                                        | 427 11991            | 21.0          | 7.78         | 24.99             | 13,833             | 3.74        | 0.05               |             |
| W4   | -15.24            | 4/9/13          | 1345          | -7.04                            | 0.30 Flood          | 1.65 51                                        | 27.6 386                                                                     | 0.30 4.2                                                        | 361 10152            | 20.8          | 7.84         | 25.86             | 14,314             | 3.16        | 0.02               |             |
| W4   | -15.24            | 7/17/13         | 1502          | -6.88                            | 0.52 Ebb            | 1.49 46                                        | 26.4 370                                                                     | 0.37 5.2                                                        | 380 10676            | 21.8          | 7.74         | 25.66             | 14,203             | 3.61        | 0.02               |             |
| W4   | -15.24            | 10/15/13        | 1346          | -6.81                            | 0.55 High           | 1.29 40                                        | 28.0 392                                                                     | 0.31 4.3                                                        | 356 9989             | 21.2          | 7.80         | 26.18             | 14,491             | 3.73        | 0.17               |             |
| W4   | -15.24            | 1/15/14         | 1332          | -7.21                            | 0.12 Flood          | 1.74 54                                        | 29.6 415                                                                     | 0.34 4.7                                                        | 370 10378            | 21.4          | 7.87         | 25.54             | 14,137             | 4.20        | 0.02               |             |
| W4   | -15.24            | 4/29/14         | 1502          | -6.97                            | 0.49 Flood          | 1.49 46                                        | 28.7 402                                                                     | 0.40 5.6                                                        | 364 10218            | 21.2          | 7.82         | 25.39             | 14,054             | 4.03        | 0.06               |             |
| W4   | -15.24            | 7/29/14         | 1430          | -7.09                            | 0.30 Flood          | 1.55 48                                        | 27.3 382                                                                     | 0.43 6.0                                                        | 363 10207            | 21.7          | 7.85         | 26.06             | 14,425             | 3.97        | 0.08               |             |
| W4   | -15.24            | 11/5/14         | 1417          | -6.91                            | 0.38 Flood          | 1.42 44                                        | 34.6 485                                                                     | 0.41 5.8                                                        | 345 9700             | 21.7          | 7.81         | 25.59             | 14,165             | 3.98        | 0.14               |             |
| W4   | -15.24            | 2/11/15         | 1023          | -7.01                            | 0.24 Ebb            | 2.16 67                                        | 37.6 526                                                                     | 0.89 12.4                                                       | 529 14868            | 21.6          | 7.76         | 25.00             | 13,838             | 3.82        | 0.14               |             |
| W4   | -15.24            | 5/20/15         | 1150          | -7.22                            | 0.00 Flood          | 1.73 54                                        | 31.5 442                                                                     | 0.59 8.3                                                        | 347 9751             | 21.7          | 7.82         | 24.55             | 13,589             | 3.79        | 0.02               |             |
| W4   | -15.24            | 7/22/15         | 924           | -7.29                            | 0.30 Ebb            | 1.55 48                                        | 34.5 484                                                                     | 0.05 0.7                                                        | 356 10008            | 21.9          | 7.74         | 25.77             | 14,264             | 3.94        | 0.02               |             |
| W4   | -15.24            | 11/9/15         | 1445          | -6.86                            | 0.48 High           | 2.01 62                                        | 31.7 444                                                                     | 0.21 3.0                                                        | 366 10268            | 21.5          | 7.85         | 24.74             | 13,694             | 4.25        | 0.07               |             |
| W4   | -15.24            | 1/27/16         | 1239          | -7.20                            | 0.08 Low            | 1.85 57                                        | 40.6 569                                                                     | 0.16 2.2                                                        | 370 10382            | 21.7          | 7.75         | 24.61             | 13,622             | 3.45        | 0.09               |             |
| W4   | -15.24            | 4/22/16         | 946           | -7.2                             | -0.05 Low           | 1.73 54                                        | 39.6 554                                                                     | 0.46 6.4                                                        | 350 9830             | 21.5          | 7.81         | 25.15             | 13,921             | 4.09        | 0.05               |             |

# NELHA Water Quality Laboratory

## Well 4 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) |
|------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4   | -15.24            | 7/27/16         | 859           | -7.02                            | 0.10 Flood          | 1.58 49                                        | 28.6 400                                                                     | 0.12 1.7                                                        | 331 9287             | 21.4          | 7.75         | 24.97             | 13,822             | 3.89        | 0.06               |             |
| W4   | -15.24            | 11/10/16        | 952           | -7.02                            | 0.40 Flood          | 1.63 51                                        | 29.0 406                                                                     | 0.18 2.5                                                        | 333 9364             | 21.3          | 7.68         | 24.90             | 13,783             | 3.92        | 0.02               |             |
| W4   | -15.24            | 3/22/17         | 1251          | -6.95                            | 0.25 High           | 1.70 53                                        | 29.0 406                                                                     | 0.21 3.0                                                        | 379 10647            | 21.6          | 7.81         | 25.10             | 13,894             | 3.68        | 0.07               |             |
| W4   | -15.24            | 4/19/17         | 1134          | -7.02                            | 0.20 Ebb            | 1.49 46                                        | 28.5 399                                                                     | 0.38 5.3                                                        | 379 10632            | 21.7          | 7.80         | 25.17             | 13,932             | 2.98        | 0.02               |             |
| W4   | -15.24            | 8/9/17          | 1355          | -7.06                            | 0.30 Flood          | 1.49 46                                        | 23.4 328                                                                     | 0.04 0.6                                                        | 377 10594            | 21.7          | 7.79         | 25.55             | 14,143             | 3.57        | 0.06               |             |
| W4   | -15.24            | 10/18/17        | 1203          | -7.07                            | 0.30 Flood          | 1.54 48                                        | 29.1 408                                                                     | 0.39 5.5                                                        | 354 9949             | 21.8          | 7.77         | 25.06             | 13,871             | 3.95        | 0.07               |             |
| W4   | -15.24            | 1/18/18         | 930           | -6.89                            | 0.20 Ebb            | 1.55 48                                        | 29.3 410                                                                     | 0.49 6.8                                                        | 353 9920             | 21.4          | 7.77         | 24.87             | 13,766             | 3.71        | 0.05               |             |
| W4   | -15.24            | 5/10/18         | 941           | -7.18                            | 0.18 Flood          | 1.50 47                                        | 27.2 381                                                                     | 0.11 1.5                                                        | 365 10243            | 20.2          | 7.75         | 26.77             | 14,818             | 4.00        | 0.10               |             |
| W4   | -15.24            | 8/30/18         | 1544          | -7.01                            | 0.34 Flood          | 1.39 43                                        | 24.7 346                                                                     | 0.43 6.0                                                        | 331 9290             | 23.5          | 7.73         | 25.76             | 14,259             | 3.29        | 0.12               |             |
| W4   | -15.24            | 10/25/18        | 912           | -6.89                            | 0.11 Low            | 1.41 44                                        | 28.5 399                                                                     | 0.26 3.6                                                        | 355 9968             | 21.9          | 7.77         | 25.00             | 13,838             | 3.97        | 0.05               |             |
| W4   | -15.24            | 2/8/19          | 915           | -6.93                            | 0.35 Ebb            | 2.56 79                                        | 77.0 1079                                                                    | 0.06 0.9                                                        | 322 9052             | 20.4          | 7.59         | 24.44             | 13,528             | 7.00        | 0.09               |             |
| W4   | -15.24            | 5/15/19         | 1358          | -6.94                            | 0.40 Ebb            | 2.21 68                                        | 39.0 546                                                                     | 0.22 3.1                                                        | 304 8538             | 20.3          | 7.62         | 25.76             | 14,259             | 5.19        | 0.04               |             |
| W4   | -15.24            | 8/28/19         | 1333          | -6.76                            | 0.65 High           | 2.02 63                                        | 30.1 421                                                                     | 0.20 2.8                                                        | 336 9431             | 21.2          | 7.77         | 25.36             | 14,037             | 4.17        | 0.05               |             |
| W4   | -15.24            | 10/11/19        | 924           | -7.09                            | 0.15 Flood          | 2.03 63                                        | 29.1 407                                                                     | 0.02 0.3                                                        | 345 9698             | 21.3          | 7.78         | 24.88             | 13,772             | 4.17        | 0.10               |             |
| W4   | -15.24            | 2/4/20          | 1027          | -7.11                            | 0.22 Flood          | 2.13 66                                        | 33.3 466                                                                     | 0.29 4.1                                                        | 360 10104            | 21.4          | 7.81         | 25.18             | 13,938             | 3.71        | 0.54               |             |
| W4   | -15.24            | 6/3/20          | 1059          | -7.05                            | 0.35 Flood          | 1.90 59                                        | 29.7 416                                                                     | 0.36 5.1                                                        | 357 10034            | 22.1          | 7.70         | 25.75             | 14,253             | 3.89        | 0.14               |             |
| W4   | -15.24            | 8/18/20         | 1354          | -6.78                            | 0.60 Flood          | 1.93 60                                        | 30.7 430                                                                     | 0.22 3.1                                                        | 349 9797             | 21.7          | 7.83         | 23.17             | 12,825             | 3.73        | 0.02               |             |
| W4   | -15.24            | 12/10/20        | 912           | -6.96                            | 0.30 Flood          | 1.82 56                                        | 33.1 463                                                                     | 0.12 1.7                                                        | 355 9976             | 21.5          | 7.75         | 25.73             | 14,242             | 3.89        | 0.07               |             |
| W4   | -15.24            | 2/18/21         | 923           | -6.93                            | 0.28 Ebb            | 1.45 45                                        | 31.5 441                                                                     | 0.19 2.6                                                        | 342 9597             | 21.4          | 7.74         | 25.35             | 14,032             | 3.99        | 0.04               |             |
| W4   | -15.24            | 4/15/21         | 917           | -7.11                            | 0.05 Ebb            | 1.49 46                                        | 31.5 442                                                                     | 0.13 1.8                                                        | 371 10409            | 21.8          | 7.69         | 25.23             | 13,965             | 4.01        | 0.05               |             |
| W4   | -15.24            | 7/6/21          | 932           | -6.87                            | 0.10 Flood          | 1.63 51                                        | 31.9 447                                                                     | 0.09 1.2                                                        | 357 10018            | 21.8          | 7.72         | 25.36             | 14,037             | 3.94        | 0.09               |             |
| W4   | -15.24            | 11/8/21         | 1014          | -6.8                             | 0.45 Ebb            | 1.62 50                                        | 32.5 455                                                                     | 0.18 2.5                                                        | 367 10294            | 21.7          | 7.68         | 25.13             | 13,910             | 3.99        | 0.05               |             |
| W4   | -15.24            | 2/8/22          | 937           | -7.01                            | 0.28 Ebb            | 2.82 87                                        | 37.0 519                                                                     | 0.14 1.9                                                        | 405 11382            | 21.3          | 7.74         | 24.76             | 13,705             | 4.05        | 0.06               |             |
| W4   | -15.24            | 4/21/22         | 940           | -7.22                            | 0.10 Ebb            | 1.31 41                                        | 29.7 417                                                                     | 0.09 1.3                                                        | 356 9989             | 21.3          | 7.68         | 25.01             | 13,844             | 4.01        | 0.05               |             |
| W4   | -15.24            | 7/12/22         | 1049          | -7.32                            | 0.30 Flood          | 1.54 48                                        | 31.8 445                                                                     | -0.35 -4.9                                                      | 360 10115            | 21.5          | 7.74         | 25.32             | 14,015             | 3.94        | 0.06               |             |
| W4   | -15.24            | 11/21/22        | 1134          | -7.07                            | 0.38 Flood          | 1.62 50                                        | 34.1 478                                                                     | 0.00 0.0                                                        | 347 9751             | 21.5          | 7.80         | 25.05             | 13,866             | 4.04        | 0.25               |             |
| W4   | -15.24            | 1/25/23         | 1347          | -7.25                            | 0.10 Flood          | 1.66 51                                        | 35.1 492                                                                     | 0.12 1.7                                                        | 365 10254            | 21.4          | 7.71         | 24.53             | 13,578             | 4.13        | 0.22               |             |
| W4   | -15.24            | 4/25/23         | 939           | -7.24                            | 0.10 ebb            | 1.80 56                                        | 33.6 471                                                                     | 0.40 5.6                                                        | 339 9518             | 21.4          | 7.70         | 25.01             | 13,844             | 4.05        | 0.12               |             |
| W4   | -15.24            | 8/14/23         | 1022          | -7.19                            | 0.10 Flood          | 1.69 52                                        | 30.0 420                                                                     | -0.03 -0.4                                                      | 350 9816             | 21.5          | 7.72         | 25.34             | 14,026             | 4.00        | 0.11               |             |
| W4   | -15.24            | 11/16/23        | 914           | -6.68                            | 0.50 Ebb            | 1.54 48                                        | 32.8 460                                                                     | 0.04 0.5                                                        | 329 9233             | 21.4          | 7.74         | 24.95             | 13,810             | 4.24        | 0.43               | 180.8       |
| W4   | -15.24            | 1/23/24         | 1425          | -7.01                            | 0.87 High           | 3.15 98                                        | 82.0 1149                                                                    | 0.14 1.9                                                        | 490 13748            | 21.3          | 7.76         | 24.66             | 13,650             | 4.13        | 0.17               | 154.6       |
| W4   | -15.24            | 5/3/24          | 1126          | -7.02                            | 0.30 High           | 1.32 41                                        | 33.0 463                                                                     | 0.05 0.7                                                        | 346 9726             | 21.5          | 7.76         | 24.68             | 13,661             | 4.10        | 0.24               | 143.0       |
| W4   | -15.24            | 7/31/24         | 952           | -7.04                            | 0.30 Flood          | 1.46 45                                        | 34.4 482                                                                     | 0.04 0.6                                                        | 332 9336             | 21.4          | 7.76         | 24.76             | 13,705             | 4.10        | 0.57               | 136.2       |
| W4   | -15.24            | 12/10/24        | 1311          | -6.88                            | 0.40 High           | 1.51 47                                        | 34.4 482                                                                     | 0.29 4.1                                                        | 340 9545             | 21.5          | 7.79         | 24.50             | 13,561             | 4.19        | 0.05               | 196.7       |
| W4   | -15.24            | 1/9/25          | 1124          | -6.98                            | 0.30 High           | 1.61 50                                        | 36.6 513                                                                     | 0.21 3.0                                                        | 337 9456             | 21.3          | 7.79         | 24.60             | 13,617             | 4.14        | 0.05               | 160.1       |

# NELHA Water Quality Laboratory

## Well 4 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) |
|-----------|-------------------|-----------------|---------------|----------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|---------------|--------------|-------------------|--------------------|-------------|--------------------|-------------|
| W4        | -15.24            | 5/13/25         | 1439          | -6.87                            | 0.20 Flood          | 1.48 46                                        | 35.3 494                                                                     | 0.04 0.5                                                        | 337 9468             | 21.3          | 7.80         | 24.65             | 13,644             | 7.80        | 0.12               | 139.8       |
| Mean      |                   |                 |               | -7.05                            | 0.27                | 2.24 69                                        | 45.68 640                                                                    | 0.82 11.5                                                       | 435 12208            | 21.7          | 7.88         | 21.48             | 11,887             | 4.57        | 0.23               | 158.7       |
| Std. Dev. |                   |                 |               | 0.23                             | 0.18                | 1.23 38                                        | 40.71 570                                                                    | 2.56 35.8                                                       | 73 2052              | 0.6           | 0.14         | 2.18              | 1,204              | 0.69        | 0.89               | 22.6        |
| Maximum   |                   |                 |               | -5.49                            | 0.87                | 18.01 558                                      | 676 9467                                                                     | 26.80 375.4                                                     | 739 20755            | 24.9          | 8.92         | 26.77             | 14,818             | 7.86        | 8.10               | 196.7       |
| Minimum   |                   |                 |               | -7.52                            | -0.05               | 1.29 40                                        | 17 243                                                                       | -0.35 -4.9                                                      | 104 2928             | 18.7          | 7.55         | 17.36             | 9,607              | 0.99        | 0.02               | 136.2       |
| n         |                   |                 |               | 100                              | 102                 | 315 315                                        | 315 315                                                                      | 314 315                                                         | 308 307              | 315           | 312          | 314               | 314                | 312         | 87                 | 7           |