

NELHA Water Quality Laboratory

Seawater Return Trench 5

6/24/1992 - 4/2/2024

| Site ID | Date<br>(M/D/Y) | Time<br>(2400) | Tide<br>(ft) (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) | TDP<br>(µM) (µg P/L) | TDN<br>(µM) (µg N/L) | Turbidity<br>(NTU) | Salinity<br>(PSU) | Chloride<br>(mg/L) | Temp.<br>(°C) | pH<br>(unit) | DO<br>(ppm) | Chl a<br>(µg/L) | ORP<br>(mV) |  |
|---------|-----------------|----------------|-----------------------------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|----------------------|----------------------|--------------------|-------------------|--------------------|---------------|--------------|-------------|-----------------|-------------|--|
| SRT-5s  | 6/24/92         | 1150           | 1.4 High                                | 3.0 92                                         | 77.9 1091                                                                    | 0.4 6.2                                                         | 729 20474            | 3.0 94               | 82 1151              | 0.91               | 8.36              | 4625               | 25.3          | 8.18         |             | 0.1             |             |  |
| SRT-5s  | 7/31/92         | 918            | 0.4 Ebb                                 | 3.0 94                                         | 73.5 1029                                                                    |                                                                 | 680 19093            | 3.2 98               | 76 1067              | 0.17               | 10.09             | 5584               | 22.7          | 7.98         | 8.06        | 0.1             |             |  |
| SRT-5s  | 8/31/92         | 1101           | 0.8 Ebb                                 | 3.7 115                                        | 12.7 177                                                                     | 35.2 493.4                                                      | 79 2229              | 5.0 155              | 71 987               | 0.94               | 32.33             | 17898              | 27.0          | 7.97         | 6.54        | 12.8            |             |  |
| SRT-5s  | 9/23/92         | 1138           | 1.5 Flood                               | 12.9 400                                       | 17.1 240                                                                     | 91.6 1283.0                                                     | 79 2218              | 13.3 412             | 122 1704             | 4.30               | 34.12             | 18884              | 26.7          | 8.00         | 5.76        | 0.6             |             |  |
| SRT-5s  | 10/28/92        | 1156           | 0.6 Low                                 |                                                |                                                                              |                                                                 |                      |                      |                      | 9.90               | 27.18             | 15045              | 25.8          | 7.76         | 1.40        | 0.6             |             |  |
| SRT-5s  | 11/18/92        | 1212           | 1.5 High                                | 13.0 403                                       | 31.7 443                                                                     | 36.5 511.0                                                      | 169 4746             | 16.3 505             | 155 2167             | 4.20               | 29.78             | 16485              | 26.8          | 8.24         | 9.98        | 22.6            |             |  |
| SRT-5s  | 12/9/92         | 1047           | 0.4 Low                                 | 4.5 140                                        | 64 895                                                                       | 22.5 315.2                                                      | 39 1104              | 6.3 196              | 62 866               | 7.30               | 34.80             | 19263              | 23.5          | 7.94         | 4.30        | 11.9            |             |  |
| SRT-5s  | 1/27/93         |                | NO SAMPLES TAKEN, UNFILTERABLE          |                                                |                                                                              |                                                                 |                      |                      |                      |                    |                   |                    |               |              |             |                 |             |  |
| SRT-5s  | 2/24/93         |                | NO SAMPLES TAKEN, UNFILTERABLE          |                                                |                                                                              |                                                                 |                      |                      |                      |                    |                   |                    |               |              |             |                 |             |  |
| SRT-5s  | 3/22/93         | 1312           | 0.8 Flood                               | 1.9 59                                         | 3.2 45                                                                       | 5.2 73.0                                                        | 53 1480              | 3.8 118              | 77 1083              | 4.10               | 34.62             | 19165              | 27.6          | 8.26         | 3.45        | 60.9            |             |  |
| SRT-5s  | 4/28/93         | 1027           | 0.5 High                                | 3.7 113                                        | 11.4 159                                                                     | 10.6 147.8                                                      | 59 1650              | 4.8 149              | 51 708               | 2.00               | 32.90             | 18210              | 24.3          | 8.30         | 7.25        | 22.0            |             |  |
| SRT-5s  | 5/26/93         | 1041           | 0.9 Flood                               | TAKEN, UNFILTERABLE                            |                                                                              |                                                                 |                      |                      |                      |                    |                   |                    |               |              |             |                 |             |  |
| SRT-5s  | 6/29/93         | 1036           | 1.3 Flood                               | TAKEN, UNFILTERABLE                            |                                                                              |                                                                 |                      |                      |                      |                    |                   |                    |               |              |             |                 |             |  |
| SRT-5s  | 9/20/93         | 822            | 2.1 High                                | 4.7 144                                        | 106.0 1485                                                                   | 36.0 504.0                                                      | 54 1512              | 6.1 190              | 215 3011             | 3.20               | 33.83             | 18725              | 19.9          | 7.67         | 7.71        | 78.4            |             |  |
| SRT-5s  | 10/27/93        | 1034           | 0.7 Flood                               | 3.7 114                                        | 26.5 371                                                                     | 1.0 13.4                                                        | 129 3623             | 4.6 142              | 63 884               | 2.50               | 30.09             | 16653              | 25.0          | 8.14         | 7.45        | 2.0             |             |  |
| SRT-5s  | 2/8/94          | 1057           | 0.2 Low                                 | 3.6 112                                        | 68.7 962                                                                     | 12.6 176.5                                                      | 151 4241             | 4.9 152              | 115 1610             | 16.90              | 29.25             | 16188              | 20.7          | 8.03         | 8.77        | 20.7            |             |  |
| SRT-5s  | 6/22/94         | 1026           | 0.0 Flood                               | 1.3 39                                         | 63.5 889                                                                     | 1.9 26.2                                                        | 30 840               | 8.0 248              | 236 3311             | 3.90               | 34.31             | 18993              | 22.9          | 8.38         | 10.69       | 126.3           |             |  |
| SRT-5s  | 8/24/94         | 1009           | 0.8 Ebb                                 | 4.9 151                                        | 77.3 1082                                                                    | 12.5 175.6                                                      | 101 2840             | 6.0 184              | 118 1649             | 1.22               | 30.37             | 16811              | 24.5          | 8.08         | 10.02       | 12.1            |             |  |
| SRT-5s  | 10/26/94        | 944            | 1.8 High                                | 2.3 72                                         | 303.8 4255                                                                   | 34.3 480.3                                                      | 86 2429              | 6.2 192              | 368 5158             | 3.90               | 33.06             | 18298              | 23.1          | 8.22         | 10.98       | 179.5           |             |  |
| SRT-5s  | 3/29/95         | 1124           | 0.2 Flood                               | 15.0 465                                       | 454.8 6370                                                                   | 32.9 461.1                                                      | 76 2126              | 16.2 502             | 494 6918             | 1.07               | 33.34             | 18457              | 21.9          | 7.88         | 8.59        | 42.6            |             |  |
| SRT-5s  | 5/10/95         | 724            | -0.2 Low                                | 4.7 146                                        | 68.5 959                                                                     | 44.7 625.8                                                      | 23 652               | 8.0 248              | 161 2259             | 6.50               | 34.72             | 19218              | 22.4          | 7.82         | 3.05        | 152.5           |             |  |
| SRT-5s  | 9/13/95         | 732            | 1.8 High                                | 1.0 32                                         | 10.9 152                                                                     | 26.5 371.2                                                      | 45 1264              | 3.7 115              | 102 1427             | 8.10               | 34.35             | 19011              | 23.2          | 7.74         | 2.56        | 134.6           |             |  |
| SRT-5s  | 11/6/95         | 1003           | 0.4 Low                                 | 5.8 181                                        | 166.0 2326                                                                   | 40.2 563.6                                                      | 48 1361              | 8.6 265              | 250 3508             | 5.10               | 32.91             | 18214              | 23.2          | 7.94         | 7.74        | 147.0           |             |  |
| SRT-5s  | 1/31/96         | 1013           | 0.5 Flood                               | 7.7 238                                        | 42.3 592                                                                     | 33.5 468.8                                                      | 34 964               | 8.7 271              | 45 623               | 3.60               | 31.13             | 17233              | 20.8          | 7.83         | 6.73        | 26.9            |             |  |
| SRT-5s  | 6/17/96         | 1330           | 1.0 Flood                               | 3.0 92                                         | 46.0 645                                                                     | 5.1 70.9                                                        | 150 4223             | 3.4 107              | 106 1490             | 1.56               | 24.91             | 13787              | 24.4          | 8.22         | 7.08        | 4.1             |             |  |
| SRT-5s  | 8/5/96          | 1253           | 1.2 Ebb                                 | 2.8 86                                         | 28.3 396                                                                     | 2.1 29.7                                                        | 105 2953             | 3.2 100              | 34 477               | 1.20               | 30.88             | 17093              | 25.0          | 8.49         | 10.57       | 10.6            |             |  |
| SRT-5s  | 10/7/96         | 1153           | 1.7 Flood                               | 6.3 195                                        | 309.8 4339                                                                   | 4.4 62.0                                                        | 44 1246              | 6.6 206              | 311 4357             | 1.64               | 34.50             | 19096              | 22.4          | 8.31         | 7.36        | 87.7            |             |  |
| SRT-5s  | 1/15/97         | 940            | 1.3 High                                | 15.5 480                                       | 361.7 5066                                                                   | 24.2 339.0                                                      | 48 1348              | 17.0 527             | 405 5676             | 5.50               | 34.41             | 19047              | 21.9          | 8.03         | 7.26        | 207.0           |             |  |
| SRT-5s  | 4/30/97         | 1008           | 0.7 Flood                               | 0.5 15                                         | 0.3 5                                                                        | 0.4 5.6                                                         | 68 1904              | 3.1 96               | 42 590               | 8.60               | 24.71             | 13677              | 26.5          | 8.59         | 10.06       | 216.0           |             |  |
| SRT-5s  | 7/14/97         | 1120           | 1.6 Flood                               | 0.0 1                                          | 0.3 4                                                                        | 0.7 9.1                                                         | 12 333               | 0.9 28               | 23 326               | 4.10               | 34.45             | 19067              | 27.4          | 8.66         | 8.15        | 172.2           |             |  |
| SRT-5s  | 10/13/97        | 1215           | 1.5 Flood                               | 0.2 6                                          | 0 4                                                                          | 0.9 11.9                                                        | 114 3202             | 1.3 40               | 38 535               | 4.70               | 34.72             | 19217              | 27.6          | 8.90         | 9.15        | 218.5           |             |  |
| SRT-5s  |                 |                | NO SAMPLES TAKEN DUE TO SITE QUARANTINE |                                                |                                                                              |                                                                 |                      |                      |                      |                    |                   |                    |               |              |             |                 |             |  |
| SRT-5s  | 4/15/98         | 1118           | 0.0 Low                                 | 1.1 33                                         | 5.6 79                                                                       | 6.2 86.1                                                        | 49 1387              | 2.1 65               | 36 510               | 0.44               | 33.50             | 18544              | 24.6          | 8.14         | 6.29        | 0.8             |             |  |
| SRT-5s  | 7/15/98         | 1128           | 1.2 High                                | 5.0 154                                        | 19 268                                                                       | 4.8 67.5                                                        | 89 2505              | 6.7 207              | 59 825               | 3.10               | 32.22             | 17833              | 25.0          | 8.39         | 7.54        | 24.4            |             |  |
| SRT-5s  | 10/14/98        | 1105           | 1.8 Flood                               | 2.4 74                                         | 4.0 55                                                                       | 0.4 5.2                                                         | 21 598               | 5.2 161              | 31 439               | 1.67               | 34.89             | 19313              | 26.4          | 8.35         | 8.41        | 22.7            |             |  |
| SRT-5s  | 3/3/99          | 1045           | 0.1 Ebb                                 | 4.0 123                                        | 1.1 16                                                                       | 0.3 4.2                                                         | 12 339               | 4.8 150              | 23 327               | 2.40               | 35.12             | 19440              | 23.3          | 8.30         | 10.99       | 84.2            |             |  |
| SRT-5s  | 4/14/99         | 1028           | -0.1 Flood                              | 6.6 204                                        | 32.8 459                                                                     | 0.7 9.1                                                         | 262 7358             | 14.6 452             | 151 2114             | 4.30               | 24.10             | 13337              | 25.0          | 8.17         | 8.20        | 12.8            |             |  |
| SRT-5s  | 8/24/99         | 1044           | 1.0 Flood                               | 1.4 42                                         | 2.2 31                                                                       | 2.0 27.5                                                        | 11 320               | 2.7 84               | 32 452               | 1.86               | 35.03             | 19391              | 27.9          | 8.31         | 8.35        | 10.1            |             |  |
| SRT-5s  | 10/12/99        | 1040           | 0.8 Ebb                                 | 1.4 44                                         | 0.1 1                                                                        | 0.4 4.9                                                         | 21 594               | 5.9 182              | 33 457               | 2.10               | 35.16             | 19460              | 25.8          | 8.32         | 8.50        | 10.1            |             |  |
| SRT-5s  | 3/1/00          | 1040           | 0.4 Flood                               | 0.3 8                                          | 0.1 1                                                                        | 0.4 5.6                                                         | 52 1466              | 2.0 62               | 22 303               | 4.40               | 33.56             | 18574              | 23.1          | 8.29         | 8.30        | 10.4            |             |  |
| SRT-5s  | 4/24/00         | 1109           | 0.3 Ebb                                 | 0.6 20                                         | 0.2 2                                                                        | 0.1 1.7                                                         | 47 1306              | 1.7 51               | 19 262               | 4.70               | 33.52             | 18553              | 22.6          | 8.36         | 8.73        | 70.4            |             |  |

NELHA Water Quality Laboratory

Seawater Return Trench 5

6/24/1992 - 4/2/2024

| Site ID | Date<br>(M/D/Y) | Time<br>(2400) | Tide<br>(ft)<br>(cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM)<br>(µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM)<br>(µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM)<br>(µg N/L) | Si<br>(µM)<br>(µg Si/L) | TDP<br>(µM)<br>(µg P/L) | TDN<br>(µM)<br>(µg N/L) | Turbidity<br>(NTU) | Salinity<br>(PSU) | Chloride<br>(mg/L) | Temp.<br>(°C) | pH<br>(unit) | DO<br>(ppm) | Chl a<br>(µg/L) | ORP<br>(mV) |
|---------|-----------------|----------------|-------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------------|--------------------|---------------|--------------|-------------|-----------------|-------------|
| SRT-5s  | 8/1/00          | 1031           | 0.0 Low                 | 3.7 116                                           | 4.7 66                                                                          | 1.1 15.1                                                           | 44 1241                 | 5.5 172                 | 32 453                  | 6.40               | 34.00             | 18818              | 25.3          | 8.08         | 5.71        | 107.0           |             |
| SRT-5s  | 12/20/00        | 1005           | 1.0 Flood               | 3.7 114                                           | 9.3 130                                                                         | 4.5 63.3                                                           | 42 1174                 | 6.8 211                 | 54 762                  | 9.20               | 33.54             | 18565              | 22.0          | 7.89         | 3.78        | 201.0           |             |
| SRT-5s  | 2/27/01         | 1037           | 0.4 Ebb                 | 3.8 119                                           | 11.8 165                                                                        | 5.4 75.4                                                           | 56 1570                 | 5.9 183                 | 44 622                  | 2.60               | 33.21             | 18383              | 22.5          | 8.07         | 7.11        | 40.0            |             |
| SRT-5s  | 5/9/01          | 1038           | -0.2 Low                | 3.7 115                                           | 8.3 117                                                                         | 0.4 6.0                                                            | 75 2106                 | 6.1 189                 | 45 633                  | 6.90               | 32.44             | 17954              | 23.5          | 8.14         | 8.45        | 135.9           |             |
| SRT-5s  | 9/11/01         | 1100           | 2.1 High                | 3.3 103                                           | 0 1                                                                             | 0.1 1.1                                                            | 27 768                  | 4.8 149                 | 34 476                  | 7.40               | 34.48             | 19088              | 26.0          | 8.37         | 6.53        | 76.5            |             |
| SRT-5s  | 10/31/01        | 1137           | 0.7 Flood               | 8.8 271                                           | 4.4 61                                                                          | 6.2 87.0                                                           | 31 857                  | 10.8 335                | 56 783                  | 3.30               | 34.62             | 19164              | 27.3          | 8.10         | 7.13        | 59.2            |             |
| SRT-5s  | 1/15/02         | 1056           | 0.4 Ebb                 | 4.0 125                                           | 1.9 27                                                                          | 32.0 448.2                                                         | 33 913                  | 7.7 238                 | 45 626                  | 3.60               | 34.23             | 18944              | 21.8          | 8.08         | 6.57        | 98.0            |             |
| SRT-5s  | 5/28/02         | 1041           | -0.2 Low                | 6.9 212                                           | 5.5 77                                                                          | 0.4 6.0                                                            | 58 1632                 | 9.1 282                 | 50 698                  | 13.20              | 33.26             | 18410              | 25.8          | 7.77         | 2.31        | 169.4           |             |
| SRT-5s  | 9/17/02         | 1113           | 1.6 Flood               | 3.3 103                                           | 10.5 147                                                                        | 7.3 102.2                                                          | 46 1292                 | 4.7 144                 | 44 610                  | 5.70               | 33.66             | 18629              | 21.6          | 8.03         | 7.54        | 143.1           |             |
| SRT-5s  | 12/16/02        | 1129           | 0.6 Flood               | 2.2 69                                            | 6 89                                                                            | 3.5 49.4                                                           | 58 1623                 | 4.0 123                 | 42 588                  | 6.10               | 33.59             | 18595              | 23.8          | 8.07         | 9.45        | 34.2            |             |
| SRT-5s  | 1/30/03         | 1130           | 0.2 Flood               | 0.6 19                                            | 0.6 9                                                                           | 1.1 15.4                                                           | 61 1713                 | 1.5 45                  | 20 281                  | 7.60               | 33.61             | 18601              | 23.9          | 8.29         | 8.64        | 117.0           |             |
| SRT-5s  | 5/28/03         | 1035           | 0.4 Flood               | 1.0 30                                            | 1 14                                                                            | 0.2 2.8                                                            | 44 1230                 | 3.7 115                 | 33 463                  | 10.50              | 34.02             | 18829              | 21.8          | 8.12         | 6.53        | 98.8            |             |
| SRT-5s  | 9/18/03         | 1047           | 1.7 Ebb                 | 4.8 149                                           | 13.9 195                                                                        | 7.4 102.9                                                          | 32 899                  | 6.2 191                 | 41 576                  | 1.01               | 34.49             | 19093              | 23.8          | 8.07         | 7.65        | 13.0            |             |
| SRT-5s  | 11/6/03         | 1035           | 0.7 Flood               | 6.5 201                                           | 10 140                                                                          | 12.4 173.4                                                         | 38 1061                 | 8.3 258                 | 53 741                  | 2.20               | 34.03             | 18835              | 24.2          | 7.78         |             | 22.0            |             |
| SRT-5s  | 11/14/03        | 1355           | 0.6 Ebb                 |                                                   |                                                                                 |                                                                    |                         |                         |                         |                    |                   |                    | 24.2          |              | 9.42        |                 |             |
| SRT-5s  | 1/29/04         | 1019           | 0.9 Ebb                 | 0.1 2                                             | 0 1                                                                             | 0.2 2.8                                                            | 38 1080                 | 1.0 30                  | 16 224                  | 7.70               | 33.53             | 18559              | 22.6          | 8.23         | 7.18        | 128.2           |             |
| SRT-5s  | 6/1/04          | 959            | -0.1 Flood              | 8.5 263                                           | 25 344                                                                          | 3.7 51.1                                                           | 80 2255                 | 11.0 339                | 55 770                  | 5.80               | 31.32             | 17336              | 26.2          | 7.85         | 5.43        | 7.5             |             |
| SRT-5s  | 9/29/04         | 958            | 0.5 Ebb                 | 3.3 102                                           | 6.7 94                                                                          | 10.5 147.1                                                         | 31 868                  | 4.7 146                 | 36 507                  | 3.76               | 33.33             | 18449              | 24.9          | 8.13         | 6.12        | 45.3            |             |
| SRT-5s  | 12/2/04         | 1045           | 1.6 Ebb                 | 1.2 37                                            | 2 25                                                                            | 0.7 9.9                                                            | 32 896                  | 2.5 77                  | 18 258                  | 11.20              | 33.06             | 18300              | 22.7          | 8.12         | 4.71        | 68.1            |             |
| SRT-5s  | 1/19/05         | 1020           | 0.6 Flood               | 7.4 230                                           | 17 242                                                                          | 9.1 127.5                                                          | 55 1532                 | 8.7 271                 | 45 624                  | 4.56               | 33.52             | 18552              | 20.6          | 7.92         | 5.63        | 22.6            |             |
| SRT-5s  | 5/31/05         | 1015           | 0.9 Flood               | 2.9 90                                            | 15 207                                                                          | 9.8 136.7                                                          | 97 2713                 | 4.3 134                 | 46 641                  | 4.8+/-             | 31.51             | 17440              | 23.5          | 8.18         |             | 0.2             |             |
| SRT-5s  | 6/16/05         | 1000           | 1.0 Flood               | 7.4 230                                           | 17 242                                                                          | 9.1 127.5                                                          | 55 1532                 | 8.7 271                 | 44 616                  |                    |                   |                    | 24.2          |              | 6.97        |                 |             |
| SRT-5s  | 8/2/05          | 945            | 0.4 Flood               | 4.9 152                                           | 15 215                                                                          | 12.3 172.7                                                         | 96 2688                 | 6.7 209                 | 52 731                  | 4.54+/-            | 31.58             | 17479              | 25.2          | 8.08         | 7.12        | 26.3            |             |
| SRT-5s  | 8/8/05          | 1010           |                         |                                                   |                                                                                 |                                                                    |                         |                         |                         |                    |                   |                    | 25.0          |              |             |                 |             |
| SRT-5s  | 11/1/05         | 939            | 0.9 Flood               | 5.1 159                                           | 6 88                                                                            | 38.6 540.2                                                         | 23 652                  | 8.1 251                 | 72 1012                 | 12.80              | 34.70             | 19205              | 24.0          | 7.42         | 2.45        | 40.3            |             |
| SRT-5s  | 1/30/06         | 938            | 0.5 Ebb                 | 1.4 43                                            | 12 170                                                                          | 1.9 27                                                             | 28 772                  | 1.8 56                  | 18 248                  | 1.33               | 34.78             | 19253              | 19.9          | 8.08         | 7.39        | 3.7             |             |
| SRT-5s  | 5/25/06         | 950            | 0.0 Flood               | 3.4 106                                           | 7 102                                                                           | 1.8 25                                                             | 23 652                  | 5.1 158                 | 33 465                  | 7.29               | 34.42             | 19054              | 25.2          | 8.07         | 5.71        | 110.0           |             |
| SRT-5s  | 7/27/06         | 1104           | 0.2 Low                 | 0.4 11                                            | 0 3                                                                             | 0.3 4                                                              | 20 565                  | 1.3 39                  | 12 170                  | 2.52               | 34.50             | 19098              | 25.7          | 8.29         | 8.55        | 27.0            |             |
| SRT-5s  | 10/31/06        | 940            | 1.6 Flood               | 0.8 24                                            | 19 263                                                                          | 0.5 7                                                              | 72 2011                 | 2.1 64                  | 39 549                  | 6.00               | 32.86             | 18186              | 23.0          | 7.86         | 5.50        | 16.5            |             |
| SRT-5s  | 1/17/07         | 1138           | 0.3 Flood               | 2.6 80                                            | 16 228                                                                          | 8.2 115                                                            | 40 1118                 | 3.6 110                 | 36 504                  | 3.10               | 34.12             | 18889              | 22.1          | 8.03         | 7.24        | 14.3            |             |
| SRT-5s  | 6/26/07         | 1111           | 1.6 Flood               | 0.1 5                                             | 12 170                                                                          | 4.4 61                                                             | 45 1261                 | 0.7 23                  | n/a n/a                 | 5.76               | 34.17             | 18916              | 22.3          | 7.95         | 6.85        | 35.3            |             |
| SRT-5s  | 9/24/07         | 1307           | 1.8 Flood               | 3.6 111                                           | 16 219                                                                          | 10.1 141                                                           | 45 1275                 | 4.6 141                 | 50 704                  | 4.53               | 34.71             | 19213              | 21.2          | 8.02         | 8.00        | 8.2             |             |
| SRT-5s  | 12/11/07        | 1105           | 0.8 Ebb                 | 0.7 21                                            | 9 120                                                                           | 13.6 190                                                           | 18 500                  | 2.3 71                  | 44 618                  | 4.23               | 34.46             | 19075              | 21.2          | 8.04         | 5.62        | 35.5            |             |
| SRT-5s  | 1/29/08         | 1339           | 0.2 Ebb                 | 0.7 22                                            | 5 64                                                                            | 3.6 50                                                             | 17 466                  | 2.5 78                  | 41 573                  | 3.37               | 34.75             | 19235              | 18.7          | 7.98         | 8.83        | 85.4            |             |
| SRT-5s  | 2/28/08         | 1023           | 0.4 Ebb                 | 0.7 23                                            | 11 152                                                                          | 5.6 79                                                             | 45 1255                 | 1.8 57                  | 40 562                  | 3.12               | 34.88             | 19307              | 18.6          | 7.81         | 6.16        | 114.8           |             |
| SRT-5s  | 4/2/08          | 1345           | 1.1 High                | 1.7 52                                            | 10 143                                                                          | 0.2 3                                                              | 41 1147                 | 2.7 84                  | 113 1588                | 1.59               | 34.86             | 19296              | 20.7          | 8.10         | 8.40        | 28.2            |             |
| SRT-5s  | 4/16/08         | 1415           | 1.3 Flood               | 1.7 53                                            | 20 273                                                                          | 0.2 3                                                              | 46 1283                 | 2.3 70                  | 48 676                  | 2.19               | 34.77             | 19246              | 18.2          | 7.97         | 9.15        | 34.9            |             |
| SRT-5s  | 5/23/08         | 1050           | Trench Dry              |                                                   |                                                                                 |                                                                    |                         |                         |                         |                    |                   |                    |               |              |             |                 |             |
| SRT-5s  | 6/12/08         | 1100           | Trench Dry              |                                                   |                                                                                 |                                                                    |                         |                         |                         |                    |                   |                    |               |              |             |                 |             |
| SRT-5s  | 7/18/08         | 958            | Trench Dry              |                                                   |                                                                                 |                                                                    |                         |                         |                         |                    |                   |                    |               |              |             |                 |             |
| SRT-5s  | 8/13/08         | 1101           | 1.2 Flood               | 2.5 77                                            | 33 464                                                                          | 4.2 59                                                             | 81 2274                 |                         |                         | 1.09               | 34.85             | 19290              | 23.6          | 7.97         | 5.08        | 7.0             |             |

NELHA Water Quality Laboratory

Seawater Return Trench 5

6/24/1992 - 4/2/2024

| Site ID | Date<br>(M/D/Y) | Time<br>(2400) | Tide<br>(ft)<br>(cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM)<br>(µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM)<br>(µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM)<br>(µg N/L) | Si<br>(µM)<br>(µg Si/L) | TDP<br>(µM)<br>(µg P/L) | TDN<br>(µM)<br>(µg N/L) | Turbidity<br>(NTU) | Salinity<br>(PSU) | Chloride<br>(mg/L) | Temp.<br>(°C) | pH<br>(unit) | DO<br>(ppm) | Chl a<br>(µg/L) | ORP<br>(mV) |
|---------|-----------------|----------------|-------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------------|--------------------|---------------|--------------|-------------|-----------------|-------------|
| SRT-5s  | 9/4/08          | 1151           | 1.0 Ebb                 | 2.1 65                                            | 31 440                                                                          | 4.1 57                                                             | 76 2138                 | 1.6 51                  | 22 314                  | 1.22               | 34.67             | 19191              | 13.8          | 7.67         | 8.15        | 6.9             |             |
| SRT-5s  | 10/20/08        | 1144           | 1.8 Ebb                 | 1.4 42                                            | 7 105                                                                           | 10.6 148                                                           | 21 600                  |                         |                         | 1.76               | 35.06             | 19407              | 24.9          | 7.83         | 7.10        | 38.0            |             |
| SRT-5s  | 11/6/08         | 1055           | 1.8 High                | 0.4 11                                            | 7 95                                                                            | 0.1 2                                                              | 22 622                  | 0.8 24                  | 26 369                  | 1.37               | 35.25             | 19512              | 22.6          | 8.27         | 7.21        | 6.8             |             |
| SRT-5s  | 1/2/09          | 1115           | 0.7 Ebb                 | 1.4 44                                            | 2 27                                                                            | 21.3 299                                                           | 7 185                   | 4.0 125                 | 60 835                  | 4.63               | 35.34             | 19562              | 25.7          | 8.12         | 4.75        | 89.3            |             |
| SRT-5s  | 1/12/09         | 1057           | 0.6 Ebb                 | 0.3 9                                             | 1 13                                                                            | 13.5 189                                                           | 2 67                    | 0.3 8                   | 42 584                  | 2.13               | 34.82             | 19274              | 25.3          | 8.34         | 5.94        | 28.7            |             |
| SRT-5s  | 2/20/09         | 1005           | 0.3 Low                 | 0.2 6                                             | 38 526                                                                          | 3.2 46                                                             | 4 101                   | 1.2 38                  | 42 591                  | 5.20               | 35.83             | 19833              | 22.3          | 8.17         | 6.86        | 17.7            |             |
| SRT-5s  | 3/30/09         | 1412           | 0.1 Flood               | 0.4 13                                            | 2 31                                                                            | 8.2 115                                                            | 16 440                  | 23.8 736                | 29 403                  | 1.97               | 34.83             | 19279              | 25.0          | 8.12         | 6.26        | 19.9            |             |
| SRT-5s  | 4/27/09         | 1441           | 0.3 Flood               | 0.2 5                                             | 4 58                                                                            | 3.9 54                                                             | 30 854                  | 1.6 51                  | 44 614                  | 4.12               | 35.42             | 19606              | 28.0          | 8.61         | 5.92        | 20.9            |             |
| SRT-5s  | 5/14/09         | 1048           | 0.4 Flood               | 0.8 26                                            | 2 25                                                                            | 6.2 86                                                             | 6 173                   | 1.3 40                  | 25 347                  | 0.31               | 35.26             | 19517              | 26.2          | 8.15         | 4.82        | 2.1             |             |
| SRT-5s  | 6/10/09         | 912            | 0.2 Ebb                 | 0.7 21                                            | 10 142                                                                          | 5.7 80                                                             | 7 204                   | 1.5 47                  | 31 428                  | 3.08               | 35.39             | 19589              | 27.5          | 9.09         | 4.33        | 4.6             |             |
| SRT-5s  | 7/10/09         | 845            | 0.5 Ebb                 | 1.4 42                                            | 1 13                                                                            | 11.1 155                                                           | 8 214                   | 2.5 76                  | 20 278                  | 6.36               | 35.61             | 19711              | 26.4          | 8.16         | 5.33        | 2.3             |             |
| SRT-5s  | 8/27/09         | 1036           | 1.8 Flood               | 2.1 64                                            | 2 26                                                                            | 1.4 20                                                             | 21 583                  | 4.3 132                 | 45 626                  | 8.47               | 35.50             | 19650              | 28.1          | 8.32         | 7.50        | 3.9             |             |
| SRT-5s  | 9/17/09         | 1043           | 0.3 Flood               | 1.6 50                                            | 10 134                                                                          | 0.3 5                                                              | 40 1128                 | 2.9 90                  | 42 591                  | 5.98               | 35.45             | 19622              | 22.2          | 7.73         | 6.73        | 6.3             |             |
| SRT-5s  | 10/22/09        | 940            | 1.6 Ebb                 | 1.0 32                                            | 24 332                                                                          | 1.6 22                                                             | 47 1309                 | 1.6 49                  | 34 472                  | 3.64               | 35.19             | 19479              | 17.5          | 7.75         | 7.48        | 33.7            |             |
| SRT-5s  | 11/19/09        | 918            | 1.7 Ebb                 | 2.8 86                                            | 23 321                                                                          | 23.6 330                                                           | 54 1529                 | 3.0 93                  | 59 824                  | 5.72               | 34.98             | 19362              | 17.9          | 7.62         | 6.55        | 4.9             |             |
| SRT-5s  | 12/7/09         | 810            | 2.0 High                | 1.0 32                                            | 22 308                                                                          | 12.4 174                                                           | 68 1923                 | 1.8 55                  | 48 666                  | 2.92               | 34.88             | 19307              | 17.4          | 7.83         | 6.41        | 135.4           |             |
| SRT-5s  | 1/4/10          | 1353           | 0.0 Low                 | 5.8 181                                           | 26 365                                                                          | 25.4 356                                                           | 58 1637                 | 6.7 207                 | 66 923                  | 19.90              | 34.70             | 19207              | 15.9          | 7.91         | 8.19        | 137.0           |             |
| SRT-5s  | 2/2/10          | 1310           | -0.2 Low                | 1.1 35                                            | 27 375                                                                          | 9.4 132                                                            | 51 1419                 | 1.6 49                  | 43 599                  | 3.50               | 34.62             | 19163              | 20.3          | 7.92         | 9.31        | 134.6           |             |
| SRT-5s  | 3/10/10         | 1230           | 0.7 High                | 1.3 41                                            | 7 93                                                                            | 13.4 188                                                           | 16 446                  | 1.9 60                  | 36 503                  | 4.49               | 35.34             | 19562              | 24.7          | 8.16         | 6.95        | 89.8            |             |
| SRT-5s  | 4/5/10          | 930            | 0.4 High                | 0.7 21                                            | 9 125                                                                           | 9.7 136                                                            | 43 1212                 | 1.2 38                  | 31 435                  | 3.45               | 35.17             | 19468              | 22.1          | 8.10         | 4.95        | 92.8            |             |
| SRT-5s  | 5/12/10         | 1210           | 1.5 Flood               | 0.5 17                                            | 10 141                                                                          | 11.7 164                                                           | 41 1143                 | 2.1 66                  | 45 632                  | 6.63               | 34.63             | 19169              | 25.2          | 8.29         | 6.94        | 77.0            |             |
| SRT-5s  | 6/21/10         | 930            | 1.3 Flood               | 1.2 39                                            | 14 203                                                                          | 15.8 221                                                           | 82 2315                 | 2.6 80                  | 49 686                  | 6.42               | 32.75             | 18128              | 23.0          | 7.94         | 5.56        | 101.8           |             |
| SRT-5s  | 7/12/10         | 917            | -0.1 Low                | 2.0 63                                            | 8 118                                                                           | 19.6 274                                                           | 23 644                  | 4.4 135                 | 57 794                  | 7.86               | 35.00             | 19373              | 23.8          | 7.53         | 3.72        | 114.4           |             |
| SRT-5s  | 8/2/10          | 1150           | 1.3 Ebb                 | 1.0 32                                            | 10 146                                                                          | 26.6 372                                                           | 39 1103                 | 3.6 112                 | 68 949                  | 7.13               | 34.84             | 19285              | 24.5          | 7.74         | 6.94        | 132.9           |             |
| SRT-5s  | 9/2/10          | 1028           | 1.7 Flood               | 1.6 51                                            | 6 81                                                                            | 0.7 10                                                             | 25 703                  | 3.2 98                  | 34 469                  | 8.15               | 35.24             | 19506              | 25.6          | 7.99         | 3.81        | 93.0            |             |
| SRT-5s  | 10/19/10        | 1039           | 1.0 Flood               | 1.4 44                                            | 11 160                                                                          | 13.6 190.0                                                         | 30 834                  | 4.4 135                 | 57 804                  | 6.04               | 34.96             | 19351              | 23.0          | 7.81         | 7.07        | 40.1            |             |
| SRT-5s  | 11/3/10         | 919            | 0.5 Low                 | 0.1 3                                             | 9 120                                                                           | 11.4 160.0                                                         | 33 913                  | 1.6 48                  | 37 517                  | 5.55               | 34.74             | 19229              | 21.2          | 7.78         | 6.56        | 93.1            |             |
| SRT-5s  | 12/6/10         | 907            | 0.9 Ebb                 | 1.0 31                                            | 7 97                                                                            | 15.8 221.0                                                         | 31 861                  | 3.0 92                  | 44 622                  | 3.13               | 34.64             | 19174              | 21.4          | 8.05         | 6.89        | 63.0            |             |
| SRT-5s  | 1/26/11         | 931            | 0.9 High                | 2.8 86                                            | 13 183                                                                          | 27.3 383.0                                                         | 31 858                  | 3.3 101                 | 56 778                  | 4.10               | 34.96             | 19351              | 27.0          | 7.71         | 5.07        | 29.8            |             |
| SRT-5s  | 4/13/11         | 955            | 0.3 Flood               | 3.2 98                                            | 7 95                                                                            | 55.5 777.1                                                         | 47 1308                 | 4.6 143                 | 80 1123                 | 5.31               | 33.38             | 18477              | 26.4          | 7.59         | 0.53        | 18.8            |             |
| SRT-5s  | 7/18/11         | 842            | 0.8 Ebb                 | 2.9 89                                            | 0 6                                                                             | 24.7 346.6                                                         | 38 1078                 | 7.2 222                 | 66 921                  | 6.81               | 34.74             | 19229              | 22.6          | 7.15         | 0.11        | 27.9            |             |
| SRT-5s  | 10/5/11         | 930            | 1.4 Flood               | 2.5 77                                            | 7 98                                                                            | 50.4 706.6                                                         | 38 1059                 | 4.5 139                 | 82 1142                 | 5.71               | 35.14             | 19451              | 22.6          | 7.14         | 1.01        | 46.2            |             |
| SRT-5s  | 1/17/12         | 803            | 0.7 Flood               | 3.2 100                                           | 9 122                                                                           | 55.8 781.8                                                         | 25 712                  | 5.0 154                 | 89 1243                 | 4.7                | 34.95             | 19346              | 23.2          | 7.52         | 0.05        | 49.0            |             |
| SRT-5s  | 4/19/12         | 1019           | 0.3 Flood               | 4.2 131                                           | 0 6                                                                             | 60.5 846.9                                                         | 16 446                  | 6.1 190                 | 85 1189                 | 6.32               | 35.21             | 19490              | 26.2          | 7.45         | 0.02        | 71.6            |             |
| SRT-5s  | 7/9/12          | 1140           | 1.1 Ebb                 | 3.7 116                                           | 2 32                                                                            | 39.0 546.7                                                         | 32 906                  | 3.3 103                 | 98 1376                 | 9.67               | 35.34             | 19562              | 26.7          | 7.54         | 0.09        | 32.8            |             |
| SRT-5s  | 7/16/12         | 1354           | 2.1 Flood               | 3.7 115                                           | 14 197                                                                          | 46.7 654.0                                                         | 42 1180                 | 21.1 652                | 170 2388                | 36.20              | 34.48             | 19086              | 27.9          | 7.76         | 5.42        | 50.1            |             |
| SRT-5s  | 9/26/12         | 1103           | 1.2 Flood               | 3.8 118                                           | 3 38                                                                            | 47.0 658.6                                                         | 17 485                  | 17.8 551                | 148 2073                | 9.93               | 35.25             | 19512              | 25.2          | 7.47         | 5.32        | 53.0            |             |
| SRT-5s  | 10/8/12         | 1018           | 1.7 Flood               | 2.3 70                                            | 4 52                                                                            | 47.1 660.0                                                         | 23 644                  | 3.9 122                 | 70 984                  | 7.76               | 35.17             | 19468              | 25.0          | 7.55         | 7.98        | 98.1            |             |
| SRT-5s  | 1/3/13          | 1020           | 1.2 Ebb                 | 13.2 408                                          | 0 7                                                                             | 136.6 1913.0                                                       | 10 284                  | 15.5 479                | 167 2337                | 14.40              | 35.89             | 19866              | 24.5          | 7.07         | 0.51        | 53.7            |             |
| SRT-5s  | 4/1/13          | 1002           | 0.4 Ebb                 | 4.4 136                                           | 8 106                                                                           | 31.6 442.9                                                         | 61 1716                 | 5.8 181                 | 69 966                  | 12.90              | 33.74             | 18676              | 23.3          | 7.51         | 6.76        | 81.6            |             |
| SRT-5s  | 7/8/13          | 926            | -0.1 Low                | 0.5 14                                            | 6 78                                                                            | 19.2 269.3                                                         | 41 1165                 | 2.2 68                  | 73 1024                 | 9.63               | 34.85             | 19290              | 23.9          | 7.60         | 7.06        | 52.7            |             |

NELHA Water Quality Laboratory

Seawater Return Trench 5

6/24/1992 - 4/2/2024

| Site ID | Date<br>(M/D/Y) | Time<br>(2400) | Tide<br>(ft)<br>(cycle) | PO <sub>4</sub> <sup>3-</sup><br>(µM)<br>(µg P/L) | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM)<br>(µg N/L) | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM)<br>(µg N/L) | Si<br>(µM)<br>(µg Si/L) | TDP<br>(µM)<br>(µg P/L) | TDN<br>(µM)<br>(µg N/L) | Turbidity<br>(NTU) | Salinity<br>(PSU) | Chloride<br>(mg/L) | Temp.<br>(°C) | pH<br>(unit) | DO<br>(ppm) | Chl a<br>(µg/L) | ORP<br>(mV) |
|---------|-----------------|----------------|-------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------------|--------------------|---------------|--------------|-------------|-----------------|-------------|
| SRT-5s  | 10/10/13        | 1030           | 1.8 Ebb                 | 3.0 92                                            | 14 191                                                                          | 39.3 550.6                                                         | 42 1166                 | 5.0 156                 | 83 1165                 | 6.06               | 34.90             | 19318              | 21.8          | 7.64         | 7.12        | 64.0            |             |
| SRT-5s  | 1/22/14         | 838            | 0.7 High                | 13.0 404                                          | 10 143                                                                          | 26.5 371.0                                                         | 37 1028                 | 14.5 449                | 52 724                  | 1.36               | 35.03             | 19390              | 20.2          | 7.38         | 6.90        | 67.3            |             |
| SRT-5s  | 4/9/14          | 1031           | 0.7 Flood               | 3.2 99                                            | 16 227                                                                          | 33.0 462.2                                                         | 34 960                  | 5.1 158                 | 62 875                  | 7.01               | 34.99             | 19368              | 21.7          | 7.37         | 6.62        | 48.8            |             |
| SRT-5s  | 7/16/14         | 1035           | 0.5 Ebb                 | 1.8 57                                            | 13 187                                                                          | 47.8 669.4                                                         | 34 953                  | 3.0 94                  | 72 1008                 | 2.83               | 34.87             | 19301              | 23.1          | 7.41         | 6.54        | 38.5            |             |
| SRT-5s  | 10/15/14        | 1203           | 1.5 Ebb                 | 4.4 136                                           | 28 386                                                                          | 67.8 949.3                                                         | 371 10430               | 5.7 176                 | 110 1545                | 3.60               | 35.33             | 19556              | 24.5          | 7.40         | 5.93        | 41.2            |             |
| SRT-5s  | 2/3/15          | 845            | 0.5 Ebb                 | 16.9 522                                          | 175 2446                                                                        | 9.4 132.0                                                          | 50 1414                 | 8.1 250                 | 0 3                     | 31.20              | 35.09             | 19423              | 22.2          | 7.25         | 0.09        | 30.2            |             |
| SRT-5s  | 5/5/15          | 1621           | 2.0 High                | 13.8 428                                          | 73 1023                                                                         | 66.2 927.0                                                         | 44 1233                 | 14.1 438                | 176 2462                | 3.38               | 34.45             | 19069              | 20.9          | 7.28         | 6.34        | 24.7            |             |
| SRT-5s  | 7/10/15         | 1052           | 1.4 Flood               | 5.2 162                                           | 20 284                                                                          | 53.0 742.6                                                         | 49 1362                 | 13.1 404.5              | 137 1922                | 5.06               | 34.66             | 19185              | 21.3          | 7.35         | 7.01        | 42.9            |             |
| SRT-5s  | 11/5/15         | 958            | 1.4 Flood               | 6.8 212                                           | 22 307                                                                          | 48.6 681.0                                                         | 55 1550                 | 6.4 197                 | 85 1186                 | 4.34               | 33.75             | 18682              | 20.3          | 7.38         | 7.19        | 10.9            |             |
| SRT-5s  | 1/19/16         | 946            | -0.2 Low                | 5.0 156                                           | 23 325                                                                          | 35.4 495.8                                                         | 49 1375                 | 5.7 177                 | 90 1254                 | 6.04               | 34.07             | 18859              | 19.7          | 7.43         | 6.82        | 41.6            |             |
| SRT-5s  | 4/12/16         | 1225           | 0.1 Low                 | 3.1 95                                            | 19 259                                                                          | 41.1 575.8                                                         | 44 1232                 | 6.5 201                 | 72 1013                 | 9.31               | 34.88             | 19307              | 19.8          | 7.54         | 7.10        | 58.4            |             |
| SRT-5s  | 7/14/16         | 1105           | 1.4 Flood               | 3.3 103                                           | 26 361                                                                          | 37.7 527.8                                                         | 51 1424                 | 4.3 134                 | 80 1125                 | 8.18               | 34.62             | 19163              | 19.0          | 7.70         | 8.04        | 46.5            |             |
| SRT-5s  | 10/20/16        | 1025           | 1.3 Ebb                 | 7.6 234                                           | 41 579                                                                          | 46.0 644.0                                                         | 76 2132                 | 8.4 259                 | 121 1699                | 5.83               | 35.00             | 19373              | 19.5          | 7.71         | 7.46        | 41.6            |             |
| SRT-5s  | 2/23/17         | 1100           | 0.6 Flood               | 3.0 92                                            | 8 108                                                                           | 43.4 607.2                                                         | 9 247                   | 4.0 125                 | 61 848                  | 7.28               | 34.71             | 19213              | 24.3          | 7.52         | 5.94        | 86.7            |             |
| SRT-5s  | 4/10/17         | 1031           | 0.0 Flood               | 3.4 105                                           | 12 166                                                                          | 34.0 476.4                                                         | 30 845                  | 4.0 125                 | 56 787                  | 9.01               | 35.05             | 19401              | 21.2          | 7.47         | 6.66        | 23.5            |             |
| SRT-5s  | 7/13/17         | 1123           | 0.2 Low                 | 4.2 130                                           | 13 180                                                                          | 65.8 922.2                                                         | 34 954                  | 8.6 266                 | 108 1516                | 8.46               | 35.05             | 19401              | 22.6          | 7.63         | 5.19        | 47.4            |             |
| SRT-5s  | 10/12/17        | 1106           | 2.0 High                | 9.0 278                                           | 21 294                                                                          | 141.8 1986.0                                                       | 44 1237                 | 10.2 315                | 122 1716                | 10.20              | 34.51             | 19102              | 21.4          | 7.33         | 6.19        | 72.1            |             |
| SRT-5s  | 1/11/18         | 1141           | 1.2 High                | 6.5 202                                           | 52 722                                                                          | 71.1 995.3                                                         | 41 1162                 | 7.7 239                 | 106 1482                | 6.96               | 34.12             | 18886              | 23.9          | 7.54         | 6.28        | 30.2            |             |
| SRT-5s  | 4/24/18         | 1109           | 0.9 Flood               | 3.0 93                                            | 5 67                                                                            | 47.9 671.4                                                         | 37 1032                 | 3.8 117                 | 69 964                  | 7.18               | 33.89             | 18759              | 24.8          | 7.55         | 6.06        | 40.0            |             |
| SRT-5s  | 7/12/18         | 1047           | 0.3 Flood               | 4.3 134                                           | 5 70                                                                            | 46.0 643.7                                                         | 19 533                  | 4.9 153                 | 68 959                  | 3.80               | 34.48             | 19086              | 25.5          | 7.63         | 6.51        | 68.1            |             |
| SRT-5s  | 10/11/18        | 1020           | 0.5 Low                 | 4.2 131                                           | 5 73                                                                            | 51.1 715.8                                                         | 20 564                  | 5.6 172                 | 75 1049                 | 11.30              | 34.74             | 19229              | 26.6          | 7.43         | 4.80        | 82.9            |             |
| SRT-5s  | 1/15/19         | 1020           | 1.3 High                | 5.0 155                                           | 3 36                                                                            | 52.4 734.1                                                         | 10 281                  | 6.1 188                 | 66 929                  | 7.70               | 35.20             | 19484              | 24.2          | 7.59         | 6.22        | 68.6            |             |
| SRT-5s  | 4/25/19         | 917            | 0.6 High                | 4.3 133                                           | 3 45                                                                            | 44.5 623.0                                                         | 25 689                  | 5.3 164                 | 61 857                  | 8.78               | 34.99             | 19368              | 25.3          | 7.39         | 6.41        | 51.0            |             |
| SRT-5s  | 7/17/19         | 1006           | 0.0 Low                 | 2.9 90                                            | 8 118                                                                           | 23.9 334.6                                                         | 37 1028                 | 3.5 110                 | 37 517                  | 4.04               | 35.74             | 19783              | 22.4          | 7.74         | 6.97        | 32.7            |             |
| SRT-5s  | 10/8/19         | 1041           | 1.6 Flood               | 4.8 148                                           | 29 410                                                                          | 38.8 543.6                                                         | 28 800                  | 5.7 177                 | 81 1141                 | 8.08               | 34.78             | 19252              | 25.9          | 7.71         | 7.21        | 56.5            |             |
| SRT-5s  | 1/9/20          | 1027           | 0.4 Low                 | 6.5 200                                           | 37 522                                                                          | 45.0 630.0                                                         | 20 570                  | 7.2 224                 | 95 1328                 | 6.14               | 34.97             | 19357              | 23.0          | 7.56         | 6.55        | 19.6            |             |
| SRT-5s  | 5/21/20         | 1150           | 0.7 Flood               | 0.8 25                                            | 7 102                                                                           | 14.0 196.0                                                         | 23 635                  | 1.4 44.4                | 35 496                  | 7.44               | 65.95             | 36505              | 25.5          | 7.81         | 6.30        | 148.8           |             |
| SRT-5s  | 7/14/20         | 1104           | 0.4 High                | 2.5 77                                            | 21 293                                                                          | 44.2 619.0                                                         | 17 471                  | 3.5 108                 | 72 1005                 | 7.94               | 34.20             | 18931              | 26.2          | 7.51         | 5.98        | 68.0            |             |
| SRT-5s  | 10/14/20        | 1053           | 0.4 Flood               | 2.8 86                                            | 28 387                                                                          | 16.4 229.9                                                         | 37 1029                 | 3.1 95                  | 59 829                  | 3.16               | 35.05             | 19401              | 21.7          | 7.64         | 7.54        | 38.6            |             |
| SRT-5s  | 1/14/21         | 1009           | 0.6 Ebb                 | 0.9 26                                            | 15 213                                                                          | 26.4 369.4                                                         | 13 367                  | 1.6 50                  | 72 1006                 | 7.33               | 35.47             | 19634              | 24.5          | 7.47         | 6.74        | 119.6           |             |
| SRT-5s  | 4/13/21         | 1155           | 0.1 Flood               | 1.2 36                                            | 9 119                                                                           | 15.3 214.4                                                         | 5 146                   | 1.6 49.2                | 49 682                  | 4.13               | 35.67             | 19744              | 24.8          | 7.69         | 7.07        | 49.3            |             |
| SRT-5s  | 7/1/21          | 1453           | 0.7 Low                 | 1.4 43                                            | 9 127                                                                           | 19.2 268.7                                                         | 16 453                  | 2.1 64                  | 57 800                  | 4.47               | 35.43             | 19611              | 27.0          | 7.73         | 6.31        | 74.5            |             |
| SRT-5s  | 10/19/21        | 1414           | 1.7 High                | 2.9 91                                            | 20 279                                                                          | 43.8 614.0                                                         | 5 127                   | 3.6 112                 | 98 1374                 | 11.3               | 35.68             | 19750              | 27.7          | 7.47         | 6.36        | 90.3            |             |
| SRT-5s  | 2/3/22          | 924            | 0.8 Ebb                 | 1.9 59                                            | 8 113                                                                           | 36.7 514.0                                                         | 7 185                   | 3.2 98                  | 80 1122                 | 7.74               | 34.74             | 19229              | 23.9          | 7.21         | 5.22        | 48.7            |             |
| SRT-5s  | 4/12/22         | 1034           | 0.7 Flood               | 2.4 74                                            | 4 60                                                                            | 54.5 764.0                                                         | 5 149                   | 3.5 109.2               | 95 1330                 | 7.46               | 35.13             | 19445              | 26.4          | 7.30         | 5.89        | 98.5            |             |
| SRT-5s  | 7/21/22         | 1113           | 1.5 High                | 0.5 17                                            | 3 43                                                                            | 25.8 362.0                                                         | 9 262                   | 1.2 39                  | 53 748                  | 10.90              | 35.05             | 19401              | 24.9          | 7.54         | 6.69        | 122             |             |
| SRT-5s  | 10/12/22        | 953            | 0.2 Low                 | 7.1 221                                           | 5 68                                                                            | 72.6 1016.8                                                        | 11 315                  | 8.7 270                 | 119 1670                | 2.87               | 35.00             | 19373              | 26.8          | 7.10         | 5.16        | 56.2            |             |
| SRT-5s  | 1/17/23         | 1010           | 1.0 High                | 3.9 121                                           | 11 156                                                                          | 28.9 405.3                                                         | 5 127                   | 4.4 136                 | 59 830                  | 5.10               | 35.10             | 19429              | 24.1          | 7.22         | 4.93        | 45.2            |             |
| SRT-5s  | 4/21/23         | 1023           | -0.2 Flood              | 4.8 150                                           | 8 108                                                                           | 41.1 575.0                                                         | 5 141                   | 6.5 200.1               | 103 1442                | 4.48               | 34.58             | 19141              | 26.4          | 7.61         | 6.85        | 14.5            |             |
| SRT-5s  | 7/12/23         | 1554           | 1.5 Ebb                 | 7.7 238                                           | 5 64                                                                            | 41.9 587.0                                                         | 12 344                  | 9.5 295                 | 109 1526                | 3.46               | 34.94             | 19340              | 27.0          | 7.80         | 6.76        | 76.3            |             |
| SRT-5s  | 10/24/23        | 1524           | 1.5 Ebb                 | 1.5 47                                            | 3 45                                                                            | 7.6 106.1                                                          | 21 599                  | 2.1 65                  | 36 511                  | 4.75               | 24.55             | 13589              | 26.2          | 7.88         | 7.42        | 45.4            |             |

**NELHA Water Quality Laboratory**

*Seawater Return Trench 5*

6/24/1992 - 4/2/2024

| Site ID   | Date<br>(M/D/Y) | Time<br>(2400) | Tide  |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity<br>(NTU) | Salinity<br>(PSU) | Chloride<br>(mg/L) | Temp.<br>(°C) | pH<br>(unit) | DO<br>(ppm) | Chl a<br>(µg/L) | ORP<br>(mV) |
|-----------|-----------------|----------------|-------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|--------------------|-------------------|--------------------|---------------|--------------|-------------|-----------------|-------------|
|           |                 |                | (ft)  | (cycle) | (µM)                          | (µg P/L) | (µM)                                                        | (µg N/L) | (µM)                                           | (µg N/L) | (µM) | (µg Si/L) | (µM) | (µg P/L) | (µM) | (µg N/L) |                    |                   |                    |               |              |             |                 |             |
| SRT-5s    | 1/11/24         | 1501           | 1.0   | High    | 1.3                           | 41       | 3                                                           | 37       | 15.4                                           | 215.7    | 4    | 103       | 2.1  | 66       | 40   | 563      | 4.21               | 34.59             | 19146              | 25.3          | 7.89         | 7.02        | 103.3           | 144.9       |
| SRT-5s    | 4/2/24          | 1505           | 0.1   | Low     | 1.4                           | 43       | 5                                                           | 76       | 3.6                                            | 51.0     | 9    | 256       | 3.0  | 93.3     | 55   | 773      | 6.03               | 35.15             | 19456              | 26.6          | 8.02         | 6.94        | 127.1           | 161.5       |
| Mean      |                 |                | 0.82  |         | 3.54                          | 110      | 26.4                                                        | 370      | 22.52                                          | 315      | 53   | 1496      | 5.33 | 165.1    | 75.0 | 1051     | 5.78               | 33.9              | 18752              | 23.7          | 7.89         | 6.50        | 59.4            | 153.2       |
| Std. Dev. |                 |                | 1     |         | 3.25                          | 101      | 60.4                                                        | 846      | 24.16                                          | 338      | 86   | 2424      | 4.09 | 126.6    | 68.1 | 954      | 4.60               | 4.3               | 2384               | 2.59          | 0.37         | 2.21        | 49.8            | 11.74       |
| Maximum   |                 |                | 2.10  |         | 16.9                          | 522      | 455                                                         | 6370     | 141.8                                          | 1986     | 729  | 20474     | 23.8 | 736      | 494  | 6918     | 36.2               | 66.0              | 36505              | 28.1          | 9.09         | 11.2        | 218.5           | 161.5       |
| Minimum   |                 |                | -0.20 |         | 0.03                          | 1        | 0.04                                                        | 1        | 0.08                                           | 1.12     | 2.40 | 67.3      | 0.3  | 8.0      | 0.21 | 3        | 0.17               | 8.4               | 4625               | 13.84         | 7.07         | 0.02        | 0.1             | 144.9       |
| n         |                 |                | 158   |         | 155                           | 155      | 155                                                         | 155      | 154                                            | 154      | 155  | 155       | 153  | 153      | 152  | 152      | 155                | 157.0             | 157                | 160           | 157          | 156         | 157             | 2           |