

## Appendix D

### Community Measures At Bay And Estuary Sites

Community measures for bay and estuary sampling sites. Abundance and number of taxa are for 0.1-m<sup>2</sup> Van Veen grab samples. The Shannon-Wiener Index (Shannon) was calculated using log<sub>e</sub>; therefore, the units are nats. Dominance is the minimum number of species whose combined abundance is equal to 75% of the individuals in the sample (Swartz *et al.* 1986). The SQO26 Index and condition categories are explained in Section 2 and Appendix F. RL: Response Level (see Section 2).

| Site | Abundance<br>(0.1 m <sup>2</sup> ) | No. of Taxa<br>(0.1 m <sup>2</sup> ) | Shannon<br>(nats) | Evenness<br>(nats) | Dominance | SQO26 | Benthic<br>Condition |
|------|------------------------------------|--------------------------------------|-------------------|--------------------|-----------|-------|----------------------|
| 4002 | 223                                | 12                                   | 1.39              | 0.53               | 2         | 3     | RL 2                 |
| 4008 | 354                                | 22                                   | 1.73              | 0.52               | 4         | 2     | RL 1                 |
| 4010 | 1539                               | 34                                   | 1.67              | 0.47               | 3         | 3     | RL 2                 |
| 4018 | 556                                | 42                                   | 2.77              | 0.72               | 8         | 1     | Reference            |
| 4020 | 965                                | 80                                   | 3.00              | 0.66               | 14        | 1     | Reference            |
| 4028 | 2329                               | 49                                   | 2.48              | 0.62               | 6         | 2     | RL 1                 |
| 4033 | 288                                | 14                                   | 1.33              | 0.48               | 2         | 4     | RL 3                 |
| 4034 | 286                                | 28                                   | 2.49              | 0.73               | 7         | 2     | RL 1                 |
| 4049 | 45                                 | 12                                   | 2.26              | 0.80               | 6         | 3     | RL 2                 |
| 4050 | 135                                | 38                                   | 3.17              | 0.84               | 15        | 2     | RL 1                 |
| 4052 | 991                                | 26                                   | 1.45              | 0.44               | 2         | 3     | RL 2                 |
| 4065 | 1840                               | 62                                   | 2.38              | 0.57               | 6         | 1     | Reference            |
| 4072 | 566                                | 20                                   | 1.70              | 0.56               | 3         | 3     | RL 2                 |
| 4075 | 5525                               | 27                                   | 1.74              | 0.51               | 3         | 2     | RL 1                 |
| 4076 | 1129                               | 33                                   | 2.12              | 0.59               | 6         | 2     | RL 1                 |
| 4084 | 680                                | 35                                   | 2.55              | 0.71               | 6         | 2     | RL 1                 |
| 4085 | 455                                | 45                                   | 2.66              | 0.68               | 7         | 1     | Reference            |
| 4087 | 1234                               | 19                                   | 1.58              | 0.52               | 3         | 3     | RL 2                 |
| 4092 | 834                                | 53                                   | 2.54              | 0.63               | 7         | 1     | Reference            |
| 4097 | 1008                               | 33                                   | 2.49              | 0.69               | 7         | 2     | RL 1                 |
| 4098 | 297                                | 52                                   | 3.26              | 0.82               | 14        | 1     | Reference            |
| 4104 | 6257                               | 33                                   | 1.93              | 0.52               | 4         | 2     | RL 1                 |
| 4108 | 411                                | 30                                   | 2.52              | 0.73               | 6         | 2     | RL 1                 |
| 4116 | 1285                               | 45                                   | 2.50              | 0.64               | 6         | 2     | RL 1                 |
| 4117 | 349                                | 14                                   | 1.22              | 0.45               | 2         | 3     | RL 2                 |
| 4118 | 7111                               | 75                                   | 2.21              | 0.50               | 5         | 2     | RL 1                 |
| 4129 | 1159                               | 31                                   | 2.51              | 0.70               | 7         | 2     | RL 1                 |
| 4130 | 5019                               | 82                                   | 2.89              | 0.64               | 9         | 2     | RL 1                 |
| 4131 | 3354                               | 31                                   | 1.07              | 0.30               | 2         | 2     | RL 1                 |
| 4138 | 173                                | 32                                   | 2.53              | 0.72               | 5         | 2     | RL 1                 |
| 4140 | 566                                | 29                                   | 2.04              | 0.60               | 5         | 2     | RL 1                 |
| 4145 | 1                                  | 1                                    | 0.00              | 0.00               | 1         | 4     | RL 3                 |
| 4146 | 540                                | 95                                   | 3.76              | 0.81               | 27        | 1     | Reference            |
| 4148 | 1049                               | 42                                   | 2.50              | 0.65               | 7         | 2     | RL 1                 |

| Site | Abundance<br>(0.1 m <sup>2</sup> ) | No. of Taxa<br>(0.1 m <sup>2</sup> ) | Shannon<br>(nats) | Evenness<br>(nats) | Dominance | SQ026 | Benthic<br>Condition |
|------|------------------------------------|--------------------------------------|-------------------|--------------------|-----------|-------|----------------------|
| 4149 | 488                                | 40                                   | 2.53              | 0.67               | 7         | 1     | Reference            |
| 4156 | 6                                  | 6                                    | 1.79              | 1.00               | 5         | 4     | RL 3                 |
| 4161 | 1451                               | 17                                   | 1.50              | 0.52               | 3         | 2     | RL 1                 |
| 4162 | 324                                | 66                                   | 3.58              | 0.84               | 21        | 1     | Reference            |
| 4177 | 965                                | 39                                   | 2.23              | 0.59               | 5         | 3     | RL 2                 |
| 4178 | 184                                | 56                                   | 3.75              | 0.91               | 26        | 1     | Reference            |
| 4182 | 5534                               | 52                                   | 2.46              | 0.59               | 6         | 2     | RL 1                 |
| 4193 | 1484                               | 62                                   | 2.83              | 0.67               | 9         | 1     | Reference            |
| 4194 | 37                                 | 13                                   | 2.30              | 0.87               | 6         | 3     | RL 2                 |
| 4204 | 1486                               | 38                                   | 1.41              | 0.39               | 2         | 2     | RL 1                 |
| 4209 | 72                                 | 17                                   | 2.72              | 0.94               | 10        | 1     | Reference            |
| 4210 | 304                                | 56                                   | 3.37              | 0.83               | 18        | 2     | RL 1                 |
| 4212 | 813                                | 27                                   | 2.60              | 0.78               | 9         | 3     | RL 2                 |
| 4221 | 1466                               | 16                                   | 2.10              | 0.73               | 5         | 2     | RL 1                 |
| 4228 | 1175                               | 42                                   | 2.18              | 0.58               | 5         | 3     | RL 2                 |
| 4236 | 466                                | 31                                   | 2.54              | 0.72               | 7         | 2     | RL 1                 |
| 4242 | 247                                | 61                                   | 3.38              | 0.82               | 19        | 1     | Reference            |
| 4246 | 992                                | 42                                   | 1.94              | 0.51               | 3         | 2     | RL 1                 |
| 4257 | 2116                               | 65                                   | 2.42              | 0.57               | 5         | 2     | RL 1                 |
| 4258 | 1735                               | 20                                   | 1.58              | 0.50               | 3         | 3     | RL 2                 |
| 4262 | 493                                | 70                                   | 2.67              | 0.62               | 8         | 1     | Reference            |
| 4264 | 3970                               | 37                                   | 1.72              | 0.46               | 3         | 2     | RL 1                 |
| 4266 | 342                                | 43                                   | 3.12              | 0.79               | 12        | 2     | RL 1                 |
| 4268 | 1612                               | 49                                   | 1.92              | 0.48               | 3         | 1     | Reference            |
| 4272 | 350                                | 48                                   | 3.09              | 0.78               | 13        | 1     | Reference            |
| 4273 | 747                                | 19                                   | 1.19              | 0.40               | 2         | 2     | RL 1                 |
| 4274 | 224                                | 50                                   | 3.27              | 0.83               | 16        | 1     | Reference            |
| 4276 | 2286                               | 60                                   | 3.05              | 0.72               | 10        | 2     | RL 1                 |
| 4284 | 168                                | 18                                   | 2.13              | 0.74               | 5         | 3     | RL 2                 |
| 4304 | 193                                | 15                                   | 1.42              | 0.52               | 3         | 3     | RL 2                 |
| 4305 | 4552                               | 46                                   | 2.76              | 0.69               | 8         | 3     | RL 2                 |
| 4306 | 238                                | 32                                   | 1.76              | 0.51               | 4         | 2     | RL 1                 |
| 4308 | 1209                               | 34                                   | 2.21              | 0.61               | 5         | 2     | RL 1                 |
| 4318 | 683                                | 48                                   | 2.68              | 0.66               | 8         | 2     | RL 1                 |
| 4321 | 964                                | 67                                   | 2.65              | 0.62               | 6         | 1     | Reference            |
| 4322 | 899                                | 24                                   | 2.04              | 0.60               | 4         | 3     | RL 2                 |
| 4337 | 305                                | 20                                   | 2.22              | 0.71               | 5         | 3     | RL 2                 |
| 4340 | 245                                | 29                                   | 2.28              | 0.67               | 7         | 2     | RL 1                 |
| 4341 | 1698                               | 31                                   | 1.23              | 0.35               | 2         | 2     | RL 1                 |
| 4348 | 420                                | 31                                   | 2.43              | 0.70               | 6         | 1     | Reference            |
| 4360 | 572                                | 41                                   | 2.35              | 0.61               | 6         | 2     | RL 1                 |
| 4364 | 707                                | 33                                   | 2.48              | 0.70               | 7         | 2     | RL 1                 |
| 4370 | 252                                | 58                                   | 3.58              | 0.87               | 20        | 2     | RL 1                 |
| 4386 | 807                                | 56                                   | 2.94              | 0.72               | 10        | 1     | Reference            |
| 4400 | 268                                | 63                                   | 3.52              | 0.83               | 19        | 2     | RL 1                 |
| 4404 | 1782                               | 41                                   | 1.39              | 0.37               | 2         | 2     | RL 1                 |
| 4408 | 478                                | 5                                    | 0.29              | 0.18               | 1         | 4     | RL 3                 |
| 4418 | 842                                | 28                                   | 2.00              | 0.59               | 4         | 3     | RL 2                 |
| 4423 | 1337                               | 42                                   | 2.49              | 0.65               | 6         | 2     | RL 1                 |

| Site   | Abundance<br>(0.1 m <sup>2</sup> ) | No. of Taxa<br>(0.1 m <sup>2</sup> ) | Shannon<br>(nats) | Evenness<br>(nats) | Dominance | SQO26 | Benthic<br>Condition |
|--------|------------------------------------|--------------------------------------|-------------------|--------------------|-----------|-------|----------------------|
| 4424   | 1132                               | 64                                   | 3.15              | 0.74               | 13        | 1     | Reference            |
| 4440   | 5014                               | 43                                   | 1.63              | 0.42               | 3         | 2     | RL 1                 |
| 4456   | 1883                               | 65                                   | 3.27              | 0.76               | 14        | 2     | RL 1                 |
| 4494   | 947                                | 28                                   | 2.13              | 0.61               | 4         | 2     | RL 1                 |
| 4520   | 1160                               | 16                                   | 1.29              | 0.44               | 2         | 3     | RL 2                 |
| 4600   | 320                                | 20                                   | 1.47              | 0.48               | 2         | 3     | RL 2                 |
| 4636   | 1845                               | 23                                   | 2.07              | 0.62               | 4         | 1     | Reference            |
| 4788   | 283                                | 13                                   | 1.40              | 0.54               | 3         | 4     | RL 3                 |
| 4852   | 1308                               | 19                                   | 1.07              | 0.33               | 1         | 3     | RL 2                 |
| 4856   | 1387                               | 16                                   | 1.06              | 0.36               | 2         | 3     | RL 2                 |
| 5012   | 622                                | 12                                   | 1.23              | 0.48               | 2         | 3     | RL 2                 |
| 5014   | 1393                               | 41                                   | 1.83              | 0.47               | 3         | 2     | RL 1                 |
| 5108   | 2026                               | 23                                   | 1.61              | 0.50               | 3         | 3     | RL 2                 |
| 5301   | 479                                | 14                                   | 1.44              | 0.52               | 2         | 3     | RL 2                 |
| 5767   | 1800                               | 47                                   | 2.52              | 0.61               | 5         | 2     | RL 1                 |
| 5787   | 3809                               | 79                                   | 2.23              | 0.49               | 4         | 1     | Reference            |
| BRI-01 | 401                                | 16                                   | 1.88              | 0.64               | 4         | 3     | RL 2                 |
| BRI-02 | 382                                | 14                                   | 1.35              | 0.51               | 2         | 4     | RL 3                 |
| BRI-03 | 218                                | 24                                   | 1.81              | 0.56               | 3         | 3     | RL 2                 |
| BRI-04 | 1741                               | 29                                   | 0.75              | 0.21               | 1         | 3     | RL 2                 |
| BRI-05 | 1712                               | 26                                   | 1.96              | 0.58               | 4         | 3     | RL 2                 |
| BRI-06 | 52                                 | 7                                    | 1.18              | 0.61               | 2         | 4     | RL 3                 |
| BRI-07 | 3456                               | 42                                   | 2.62              | 0.67               | 8         | 2     | RL 1                 |
| BRI-08 | 1441                               | 29                                   | 1.80              | 0.52               | 3         | 3     | RL 2                 |
| BRI-09 | 1154                               | 25                                   | 2.14              | 0.65               | 5         | 3     | RL 2                 |
| BRI-10 | 1245                               | 40                                   | 2.62              | 0.69               | 7         | 2     | RL 1                 |
| BRI-11 | 324                                | 13                                   | 1.61              | 0.61               | 3         | 4     | RL 3                 |
| BRI-12 | 444                                | 22                                   | 2.13              | 0.68               | 4         | 3     | RL 2                 |
| BRI-13 | 101                                | 11                                   | 1.77              | 0.71               | 4         | 3     | RL 2                 |
| BRI-14 | 277                                | 27                                   | 2.58              | 0.75               | 7         | 3     | RL 2                 |
| BRI-15 | 1468                               | 25                                   | 1.70              | 0.51               | 3         | 3     | RL 2                 |
| BRI-16 | 1073                               | 24                                   | 1.99              | 0.61               | 4         | 3     | RL 2                 |
| BRI-17 | 772                                | 37                                   | 2.23              | 0.60               | 5         | 2     | RL 1                 |
| BRI-18 | 1035                               | 48                                   | 2.61              | 0.66               | 7         | 2     | RL 1                 |
| BRI-19 | 507                                | 36                                   | 2.41              | 0.66               | 5         | 2     | RL 1                 |
| BRI-20 | 179                                | 26                                   | 2.76              | 0.82               | 9         | 2     | RL 1                 |