# Appendix 3: Mussel Watch Data

**NOAA NS&T Mussel Watch Program Data: Most Recent Data 2007 – 2009, Resident Mussels, Comparison of ASBS with Non-ASBS Stations**

| | Copper | | | | Silver | | | | Arsenic | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites |
| 2007-2009 average | 9.335 | 9.373 | 9.094 | 9.280 | 0.131 | 0.045 | 0.358 | 0.166 | 13.351 | 7.525 | 10.534 | 10.688 |
| STDEV | 2.490 | 2.508 | 3.125 | 2.645 | 0.169 | 0.068 | 0.635 | 0.368 | 7.487 | 1.324 | 2.818 | 5.543 |
| Median | 8.195 | 9.240 | 7.885 | 8.360 | 0.084 | 0.000 | 0.081 | 0.061 | 10.800 | 7.700 | 9.450 | 9.430 |
| 85 Percentile | 12.350 | 11.800 | 12.990 | 12.640 | 0.186 | 0.105 | 0.742 | 0.212 | 15.075 | 8.710 | 13.440 | 13.280 |

| | Lead | | | | Cadmium | | | | Chromium | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites |
| 2007-2009 average | 2.279 | 2.011 | 1.396 | 1.948 | 7.522 | 3.069 | 4.198 | 5.163 | 1.760 | 1.639 | 1.753 | 1.719 |
| STDEV | 3.430 | 2.226 | 0.518 | 2.519 | 3.678 | 1.684 | 2.125 | 3.366 | 0.900 | 2.136 | 1.293 | 1.480 |
| Median | 1.345 | 1.320 | 1.515 | 1.360 | 6.825 | 2.760 | 3.940 | 5.010 | 1.600 | 1.260 | 1.460 | 1.420 |
| 85 Percentile | 2.640 | 2.360 | 1.935 | 2.246 | 12.650 | 5.220 | 6.757 | 7.498 | 2.185 | 1.860 | 2.328 | 2.104 |

| | Nickel | | | | Zinc | | | | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites |
| 2007-2009 average | 2.973 | 2.632 | 3.153 | 2.913 | 156.835 | 135.605 | 138.794 | 144.980 | 0.144 | 0.107 | 0.086 | 0.116 |
| STDEV | 1.812 | 2.264 | 2.359 | 2.099 | 37.580 | 41.557 | 29.067 | 37.583 | 0.138 | 0.084 | 0.079 | 0.109 |
| Median | 2.500 | 2.020 | 2.135 | 2.180 | 160.500 | 133.000 | 130.000 | 138.000 | 0.106 | 0.074 | 0.057 | 0.074 |
| 85 Percentile | 4.073 | 4.270 | 6.057 | 4.662 | 192.750 | 162.000 | 153.350 | 187.800 | 0.232 | 0.222 | 0.128 | 0.224 |

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# Appendix 3: Mussel Watch Data

| | Total PAH | | | |
|---|---|---|---|---|
| | ASBS | Enclosed bay | Open costal non ASBS | State Wide sites |
| 2007-2009 Average | 128.68 | 3067.21 | 293.24 | 1139.17 |
| 2007-2009 STDEV | 129.12 | 10424.76 | 597.28 | 6037.52 |
| Median | 100.10 | 594.50 | 122.05 | 122.20 |
| 85 Percentile | 154.20 | 1949.00 | 240.14 | 759.71 |

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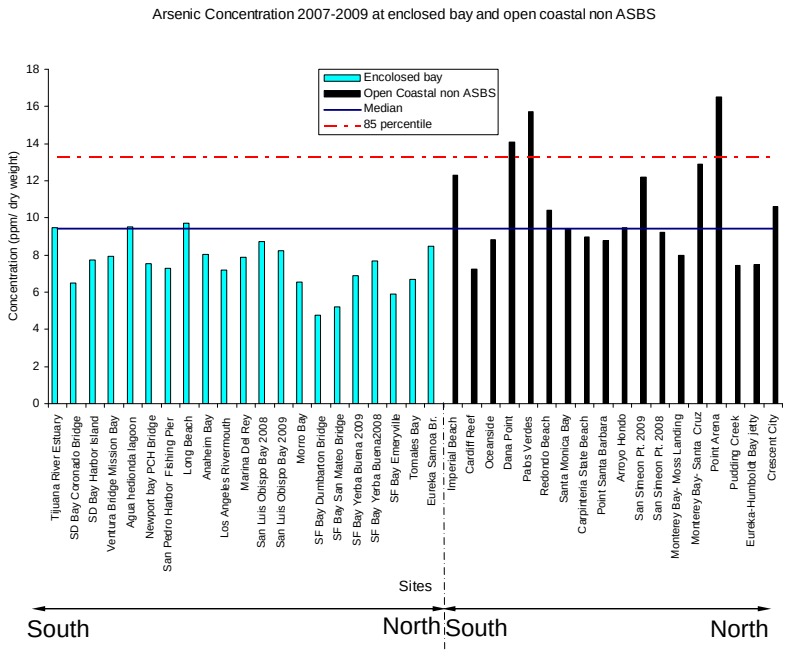
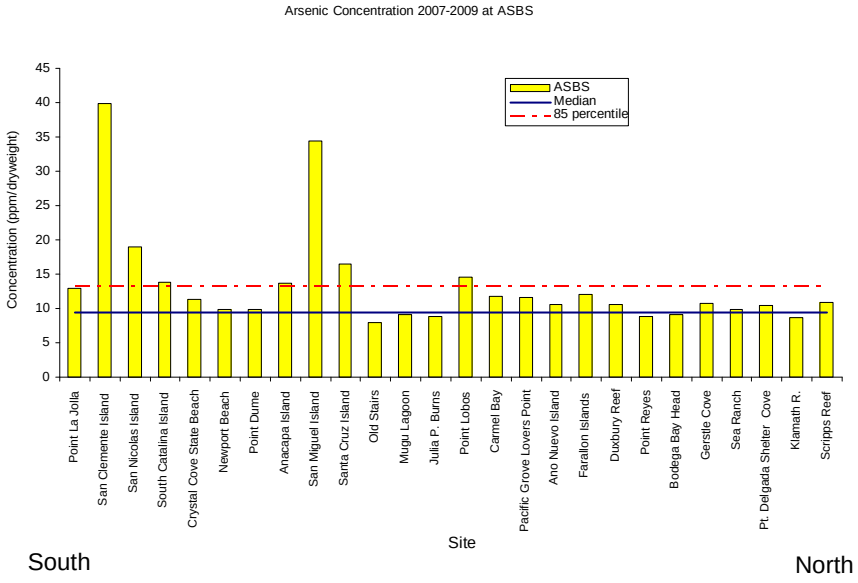
# Appendix 3: Mussel Watch Data

## NOAA NS&T Mussel Watch Program Data: Most Recent Data 2007 – 2009, Resident Mussels, Comparison of ASBS with Non-ASBS Stations, Graphs Showing Individual Station Daya



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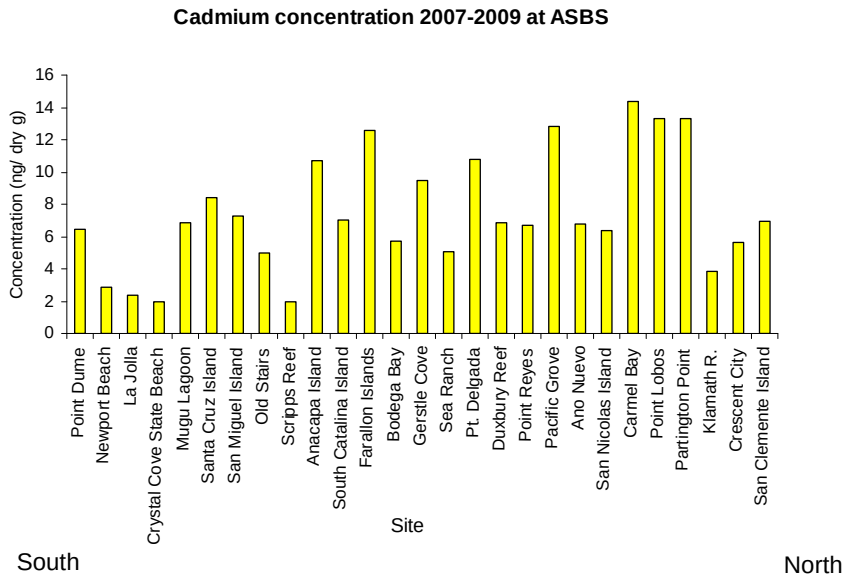


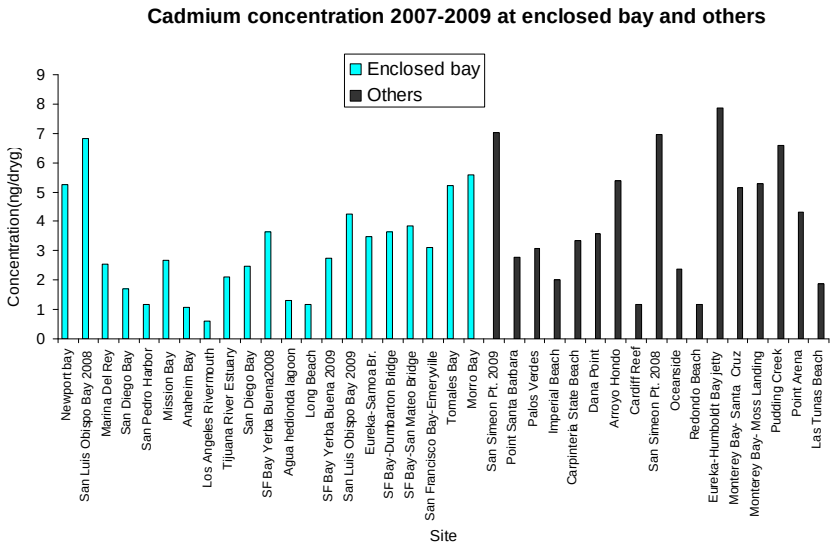

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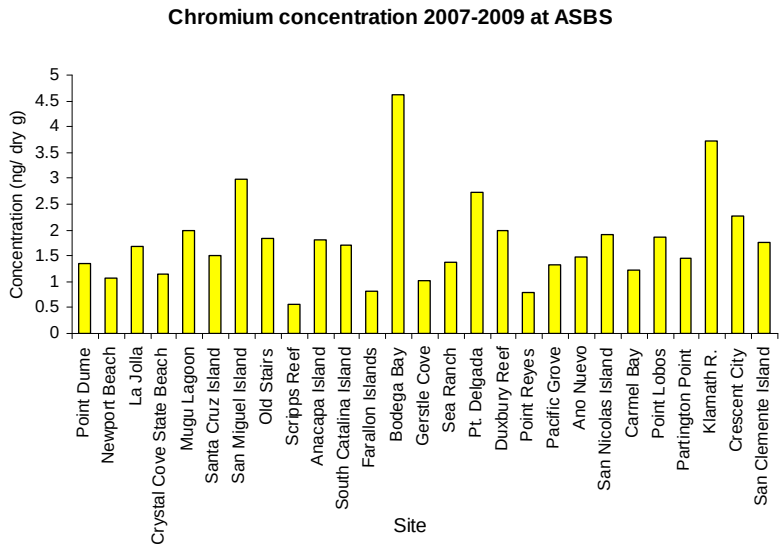


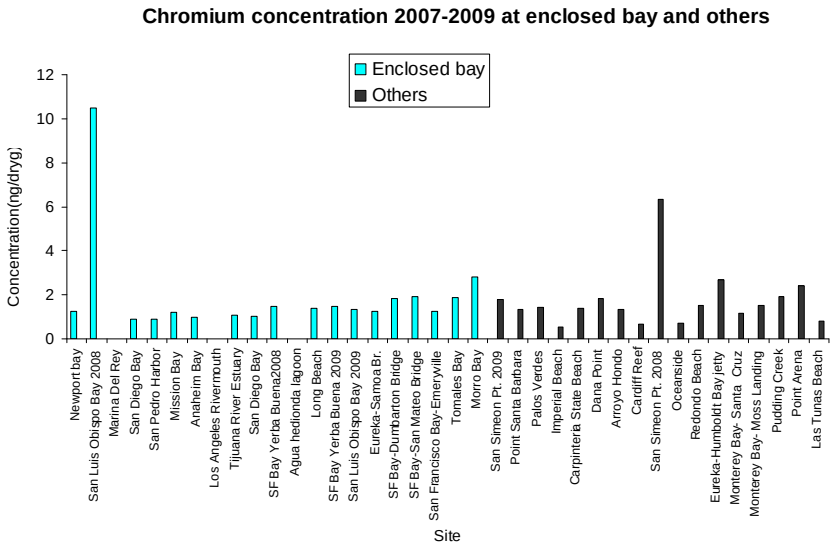

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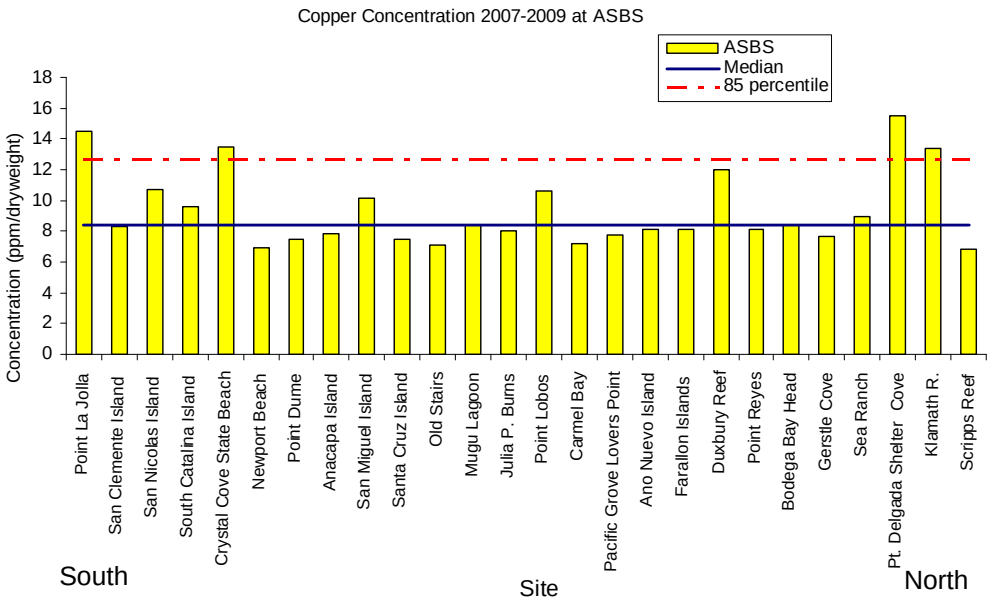


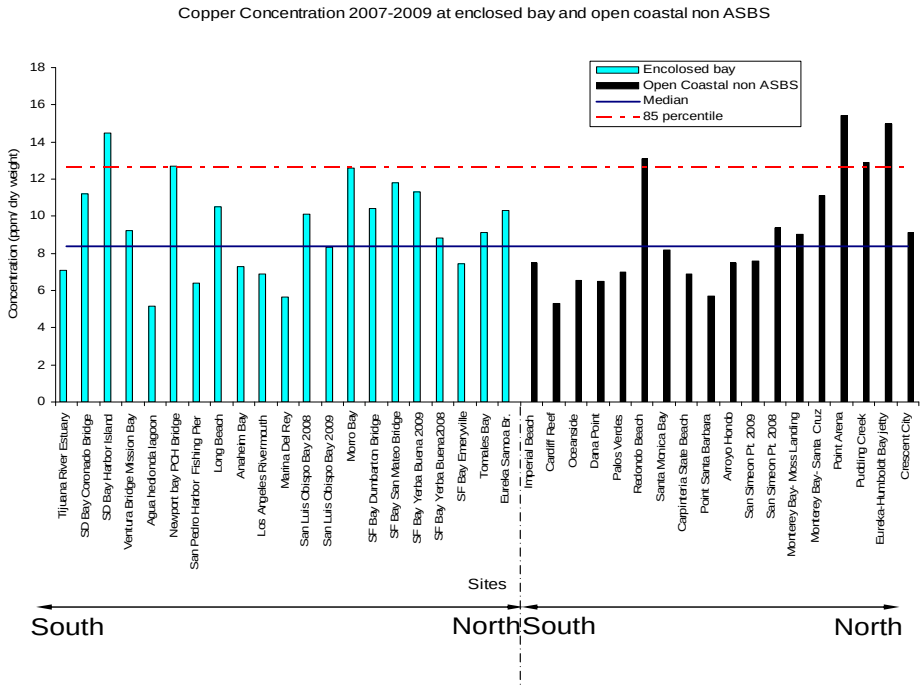

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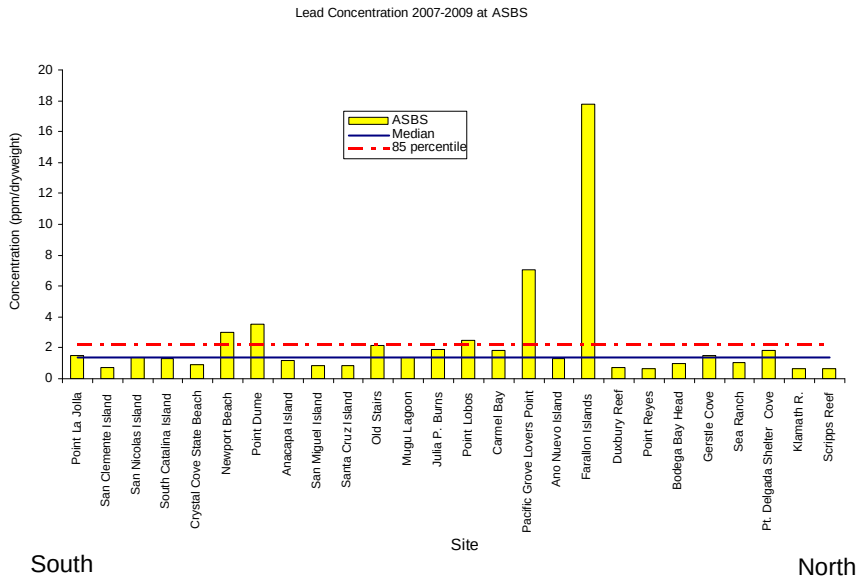


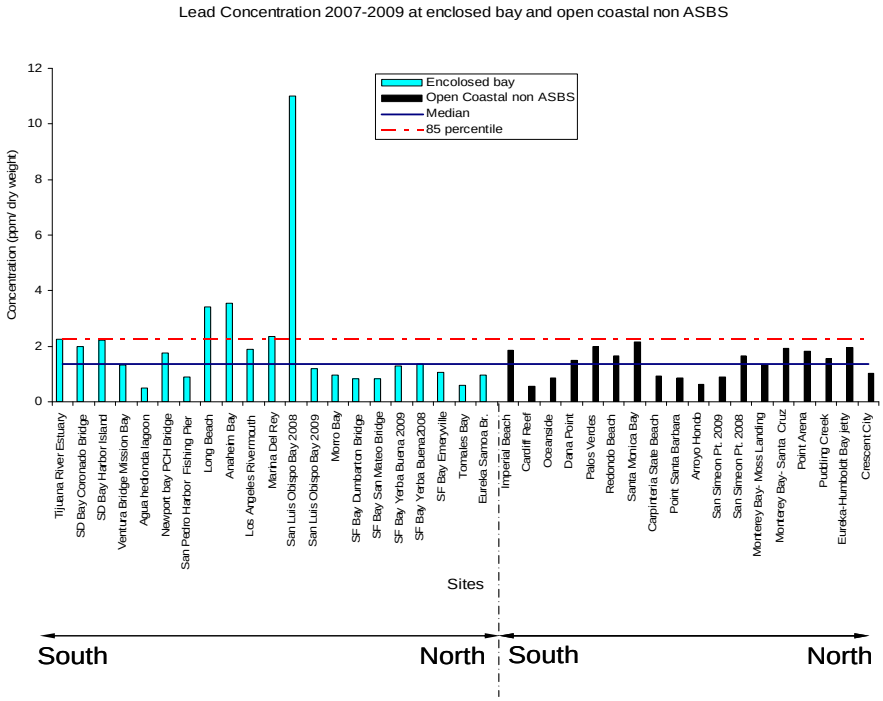

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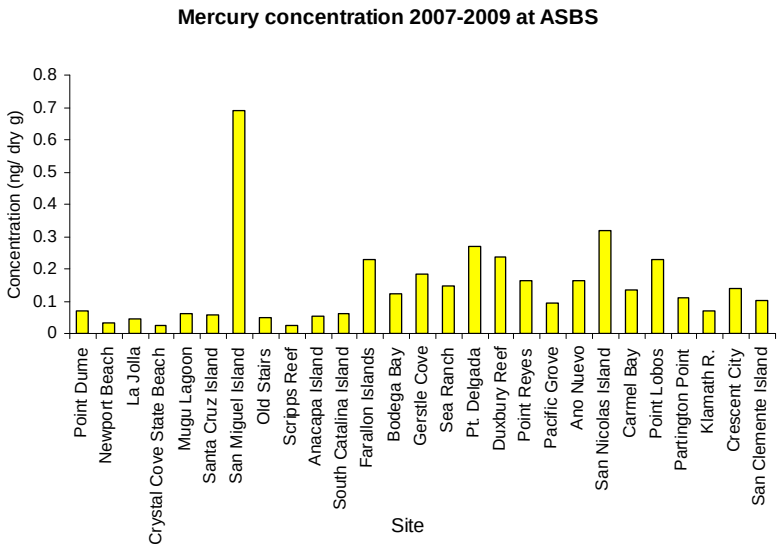


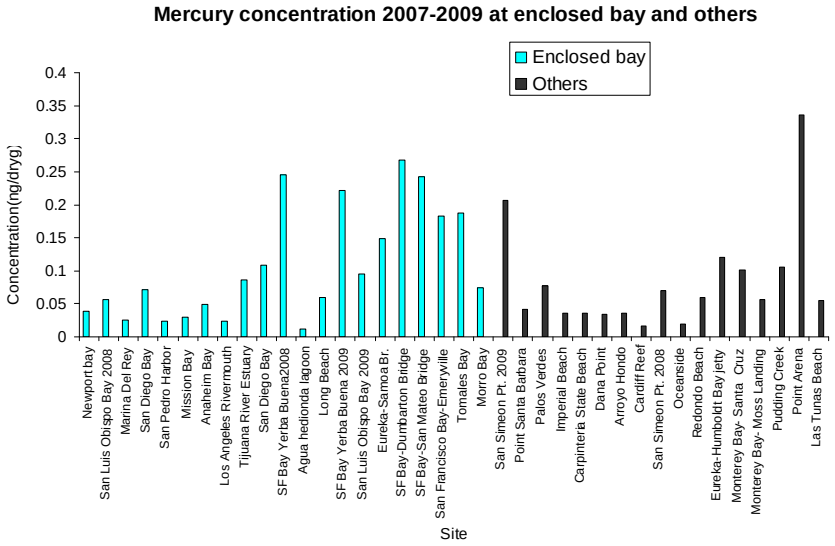

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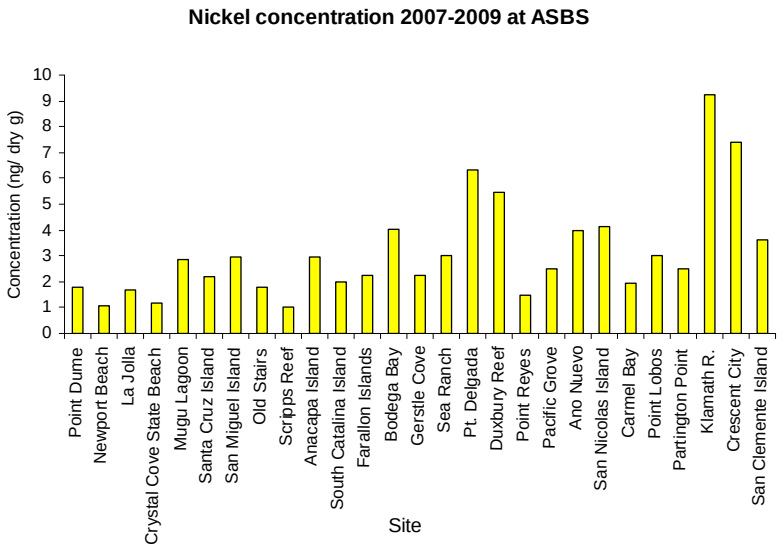


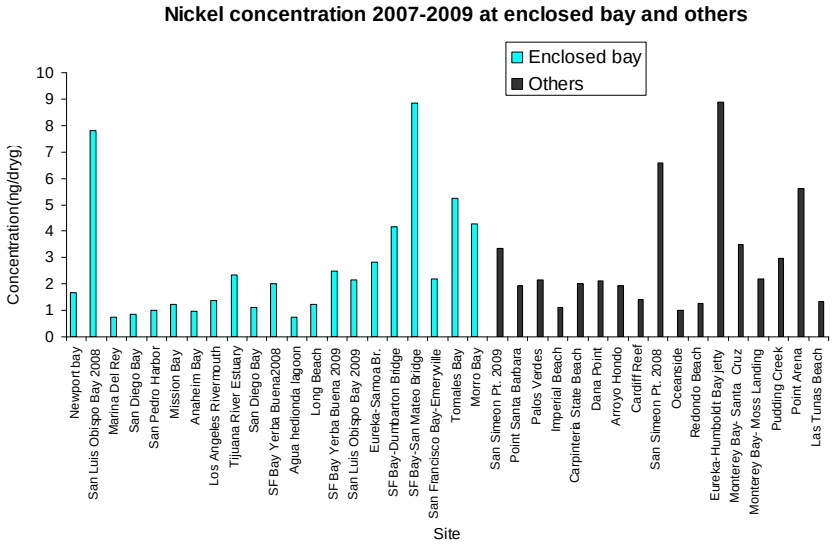

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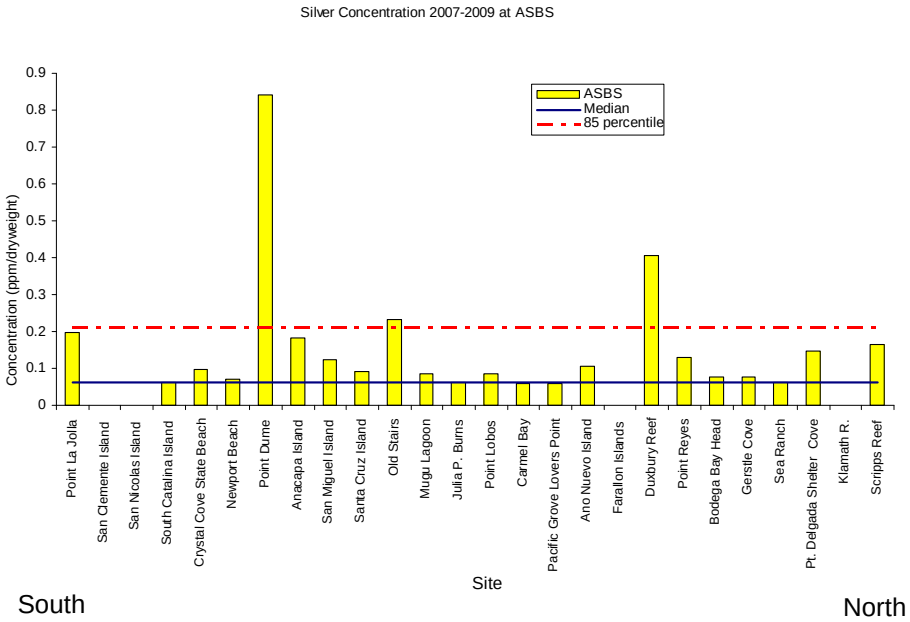


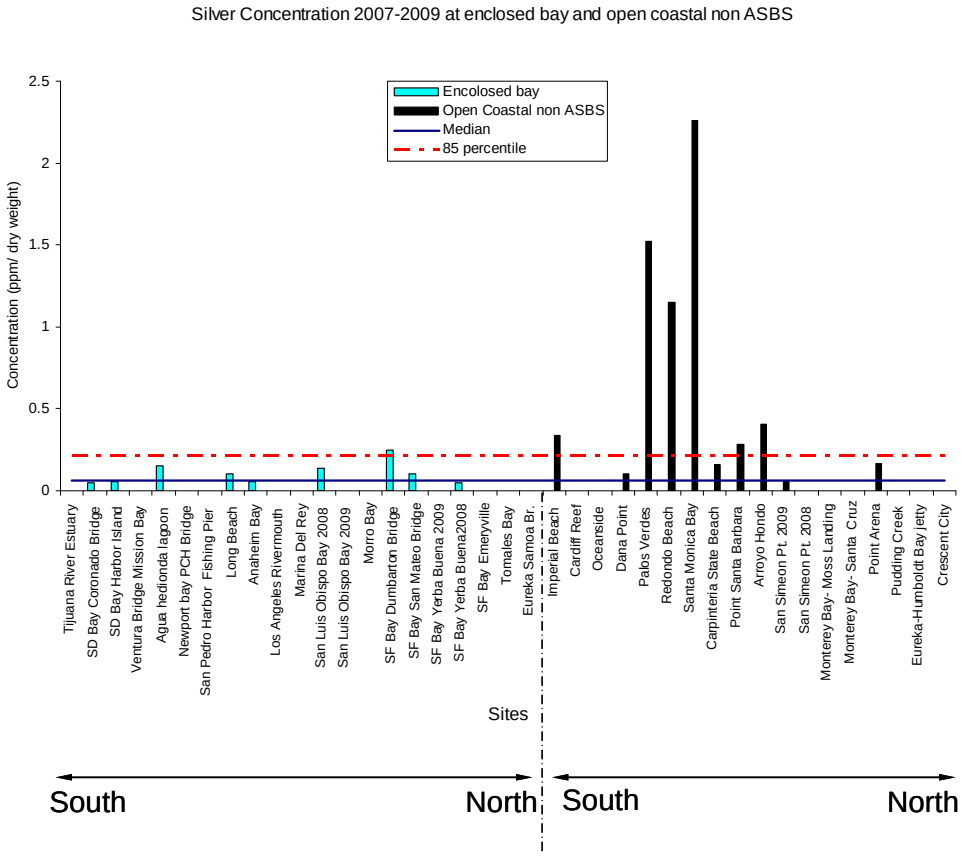

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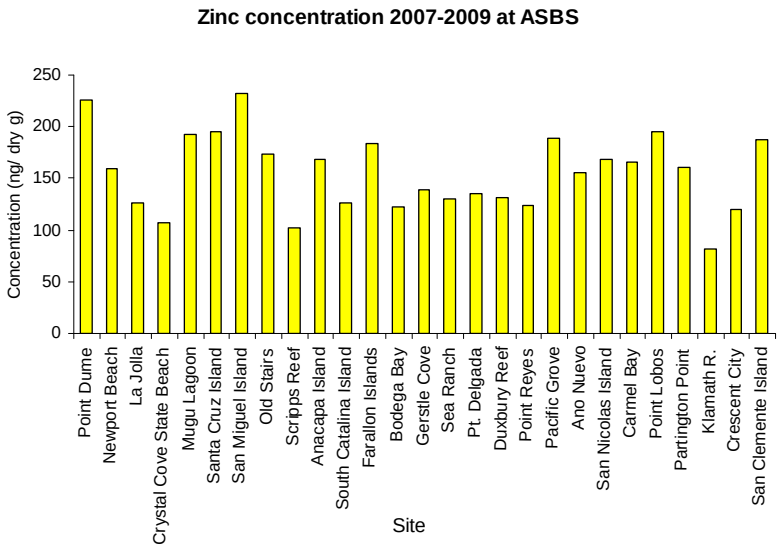
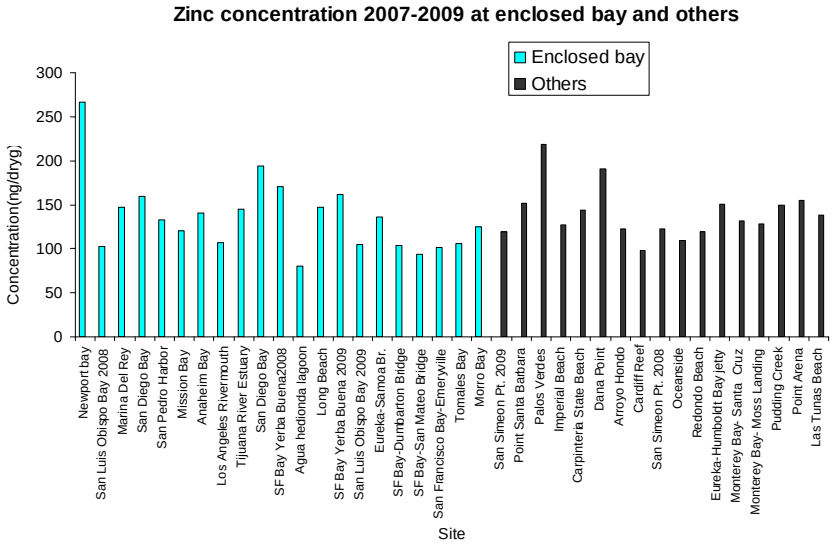
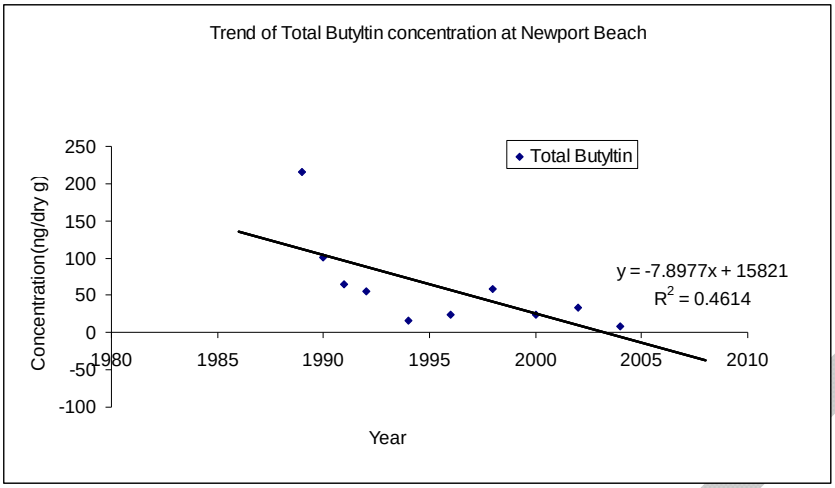


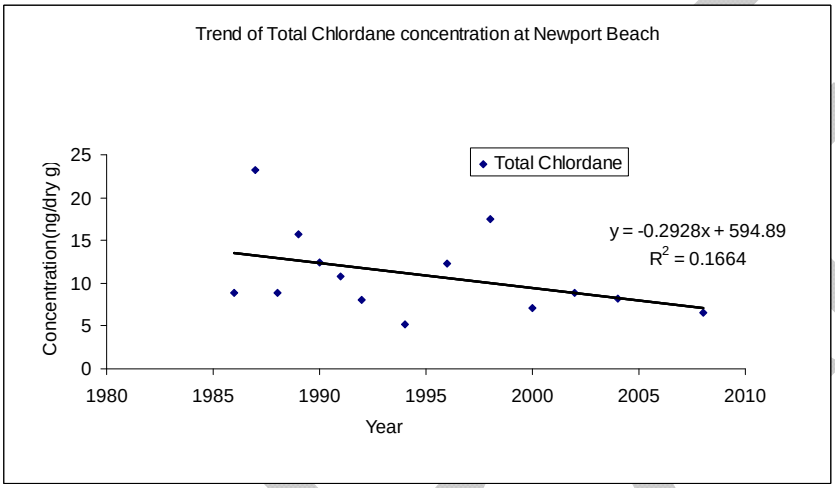



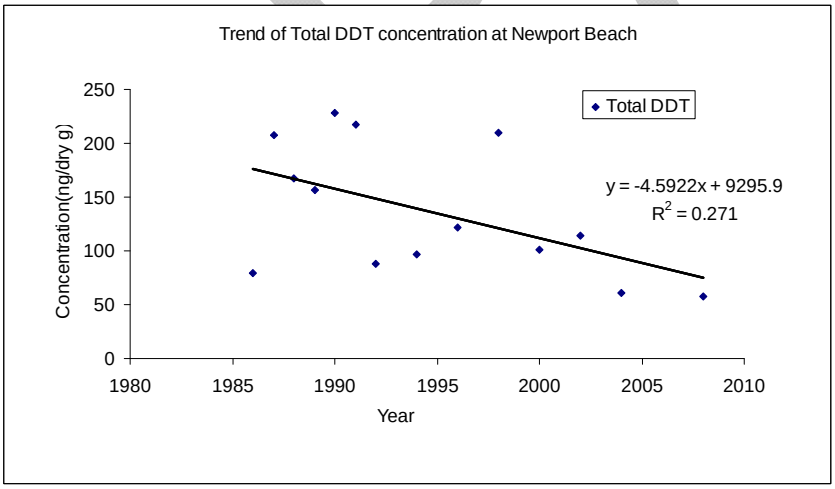
# Appendix 3: Mussel Watch Data

## NOAA NS&T Mussel Watch: Historical Data through 2009, Resident Mussels

Summary for Newport Beach (NBWJ) - NOAA program



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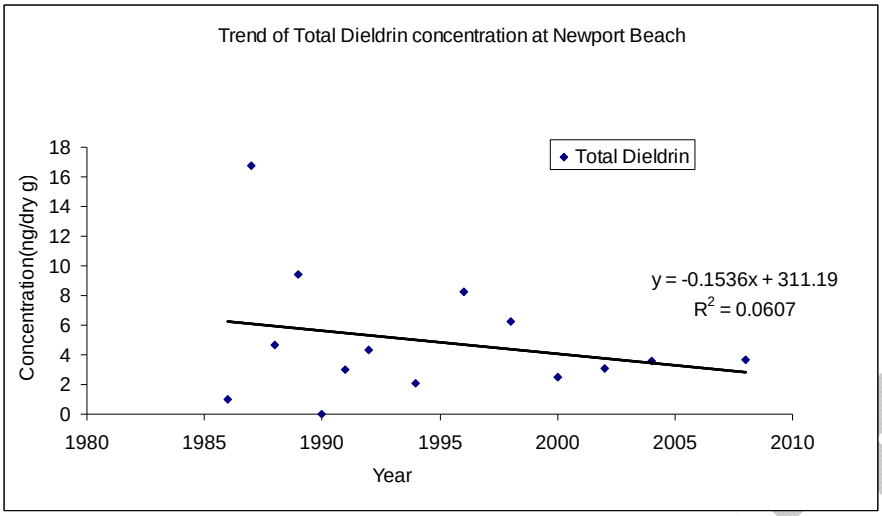


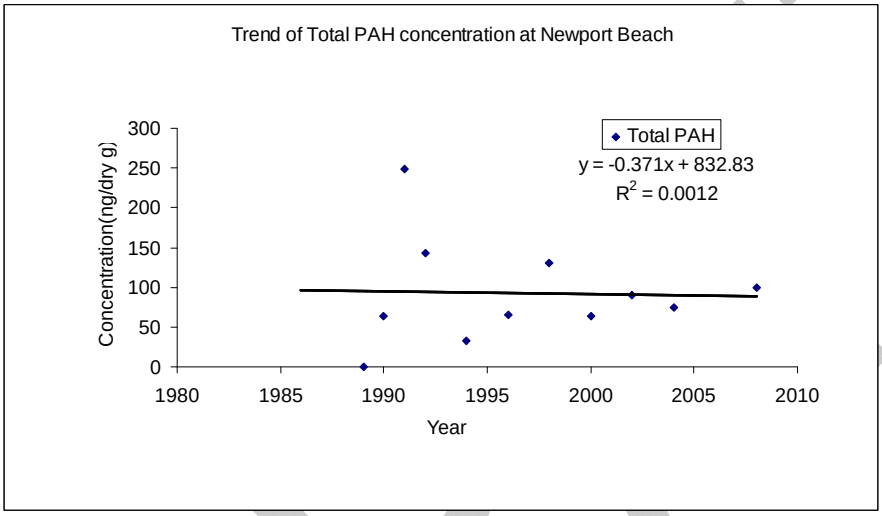


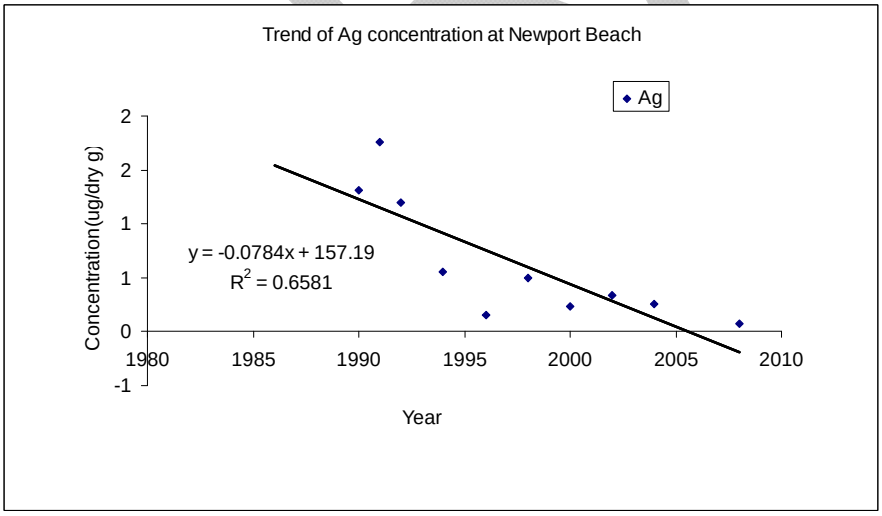

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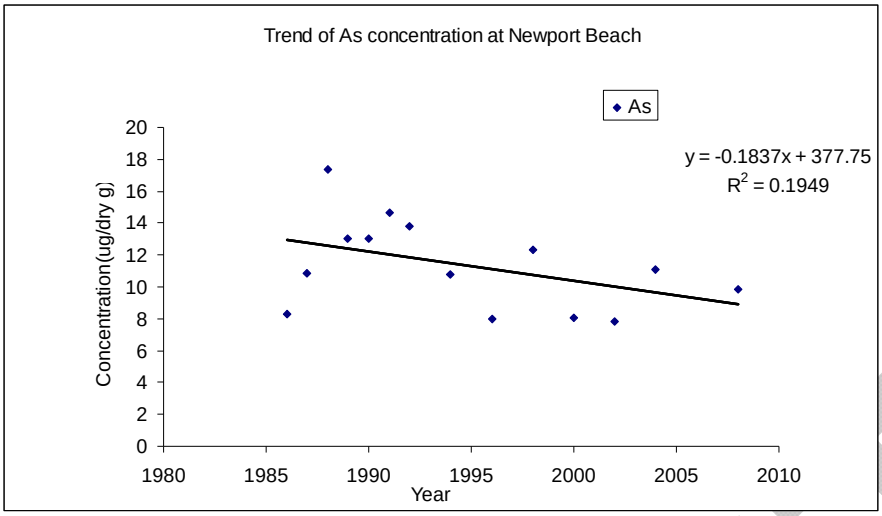


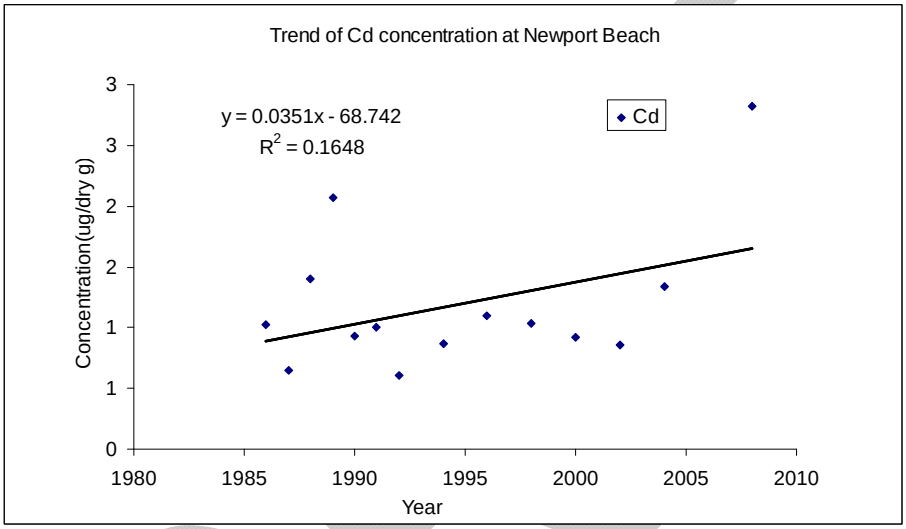


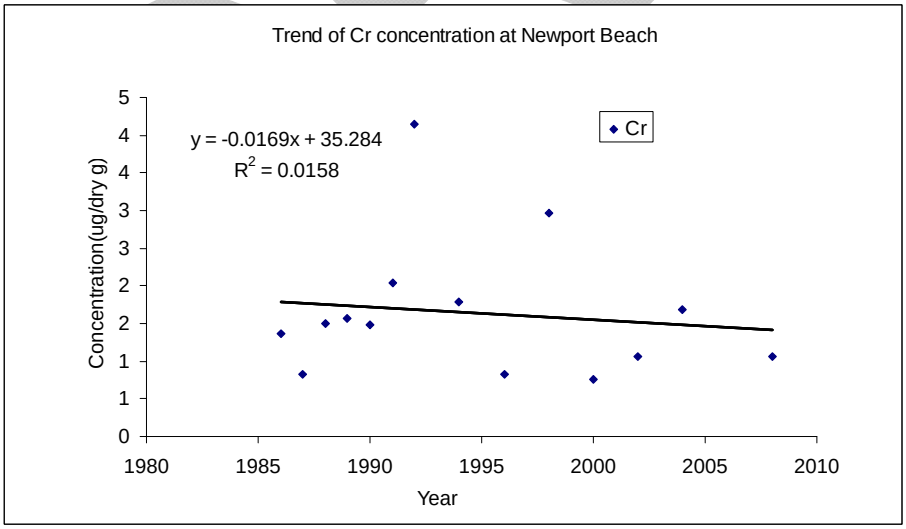

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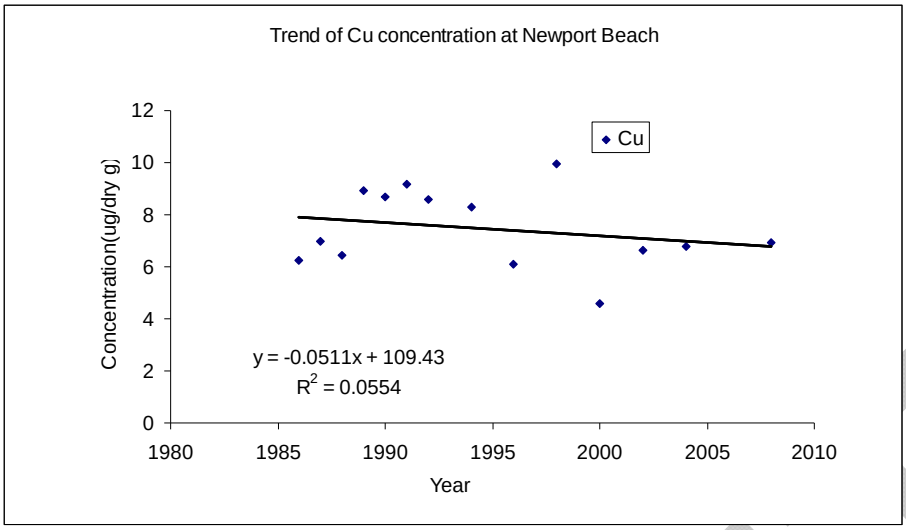


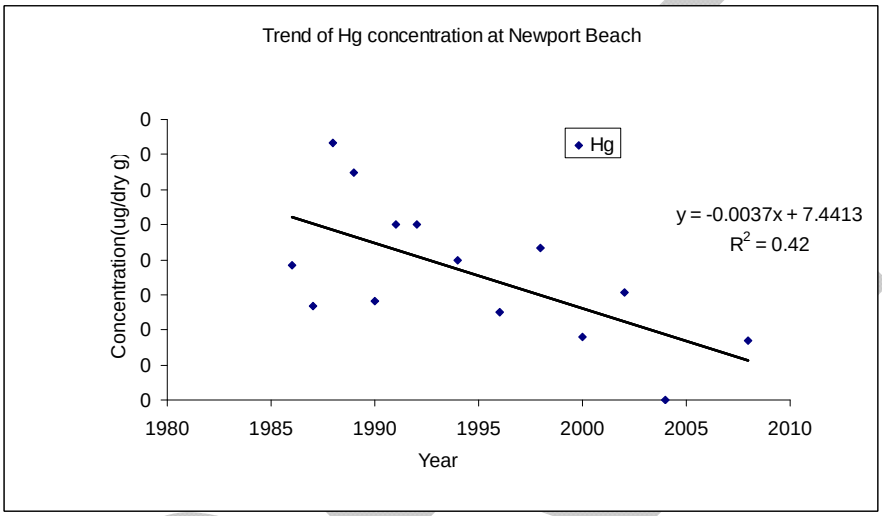


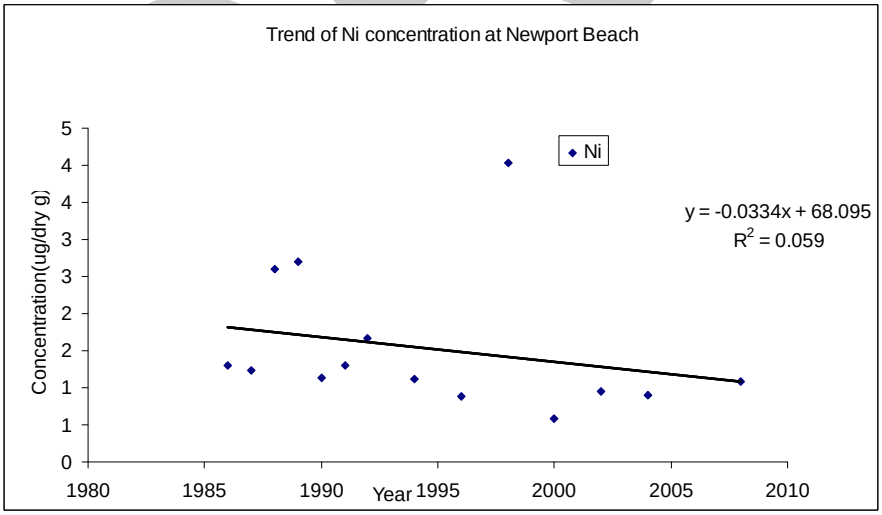

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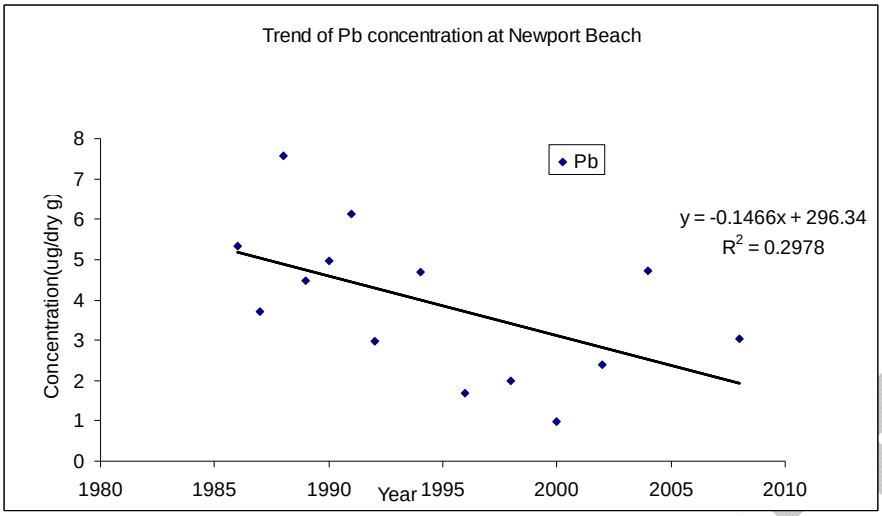


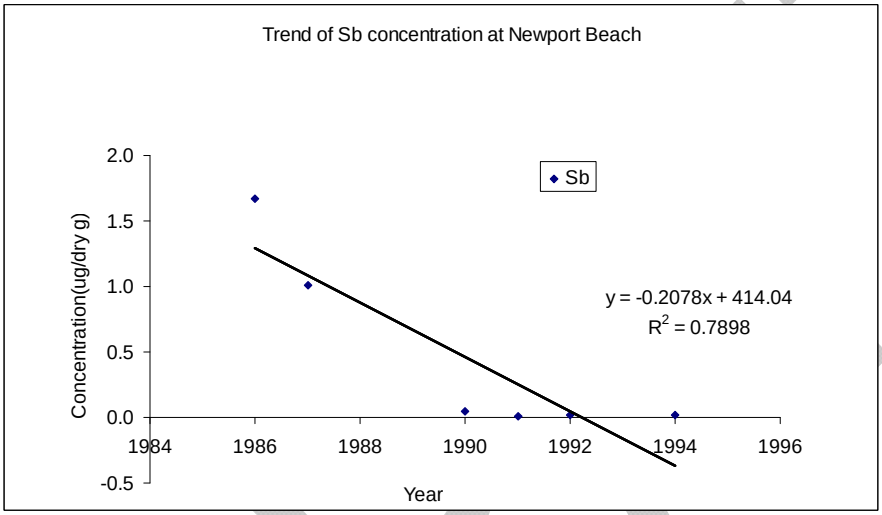


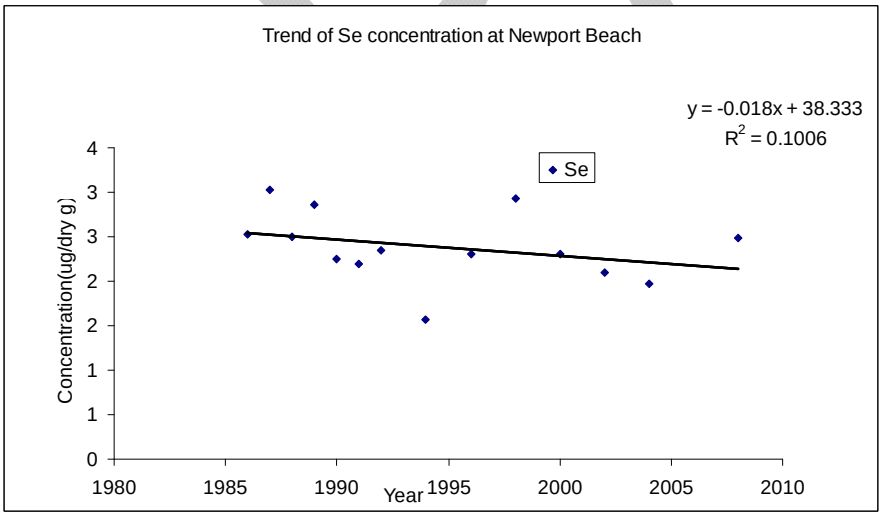

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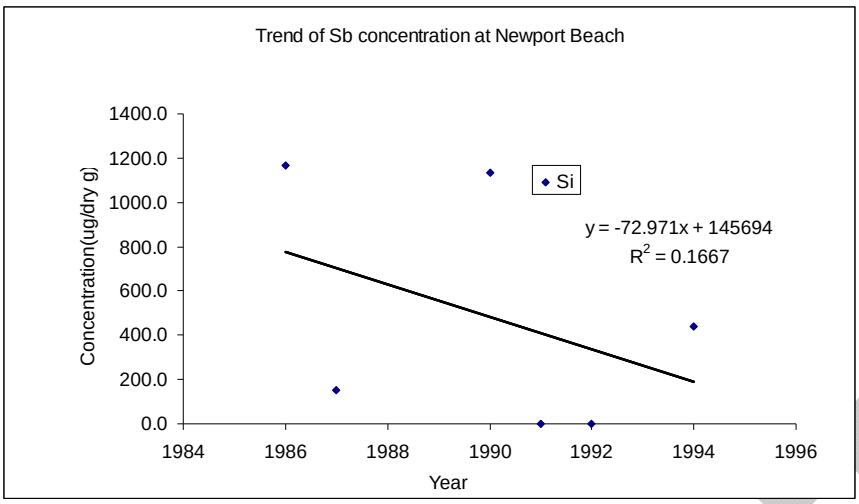


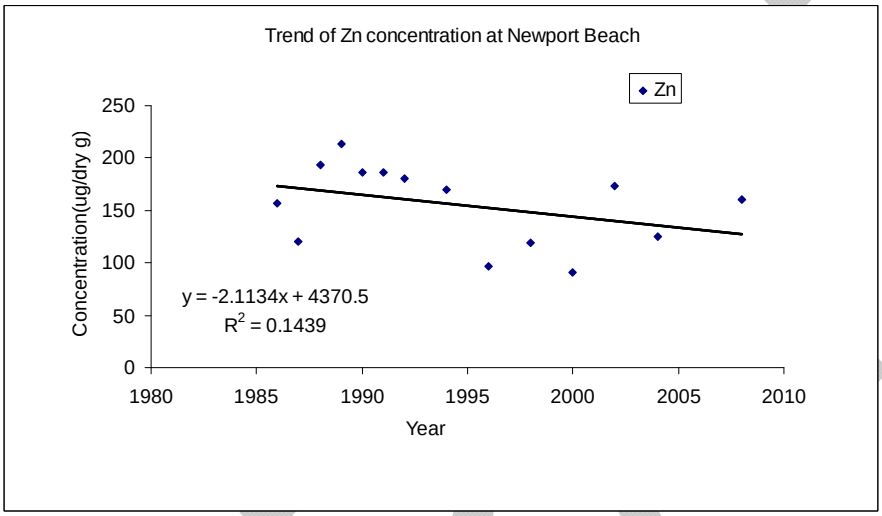


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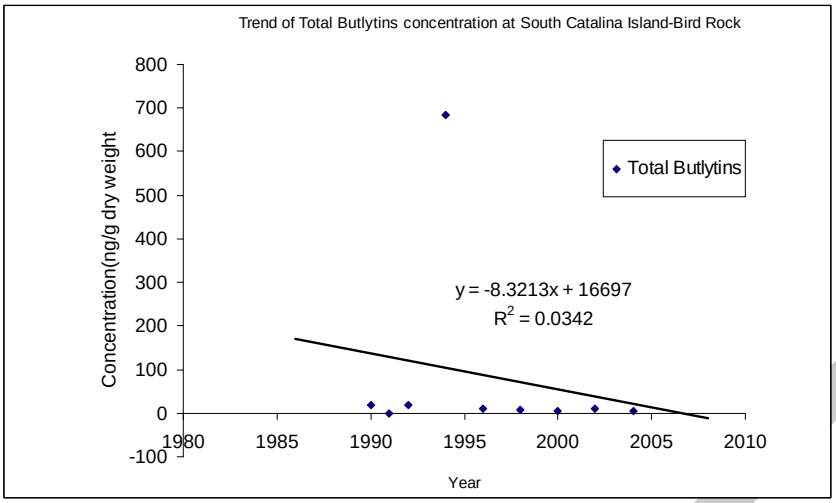
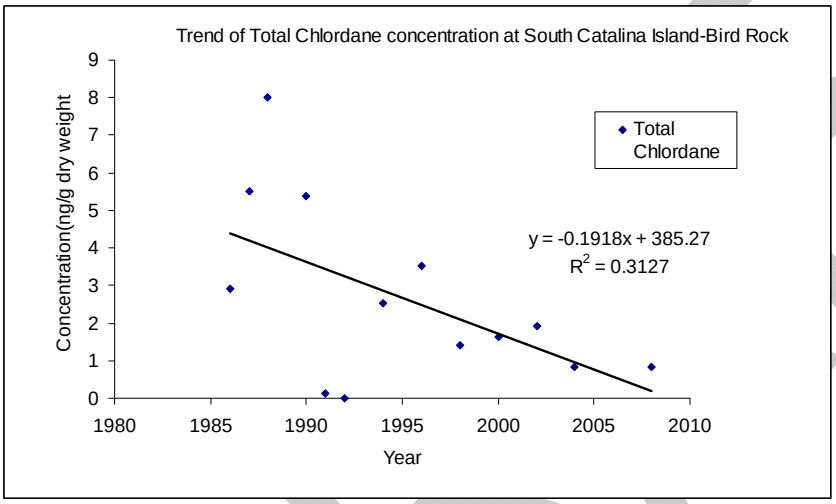
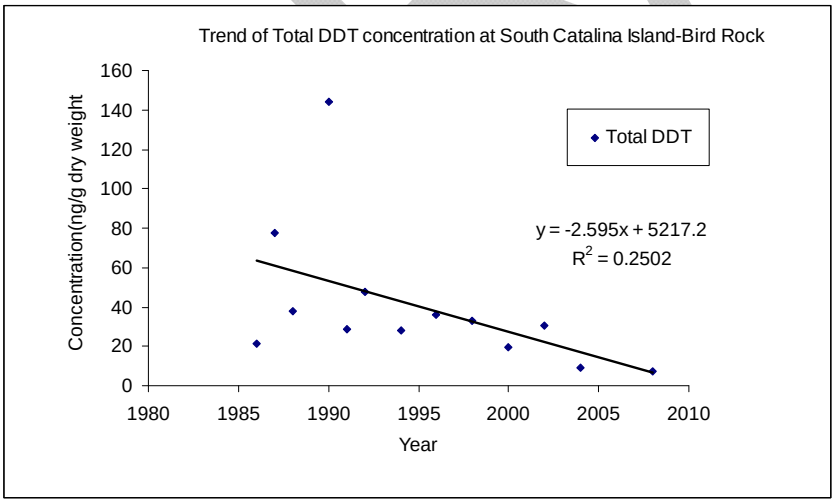
# Appendix 3: Mussel Watch Data

South Catalina Island



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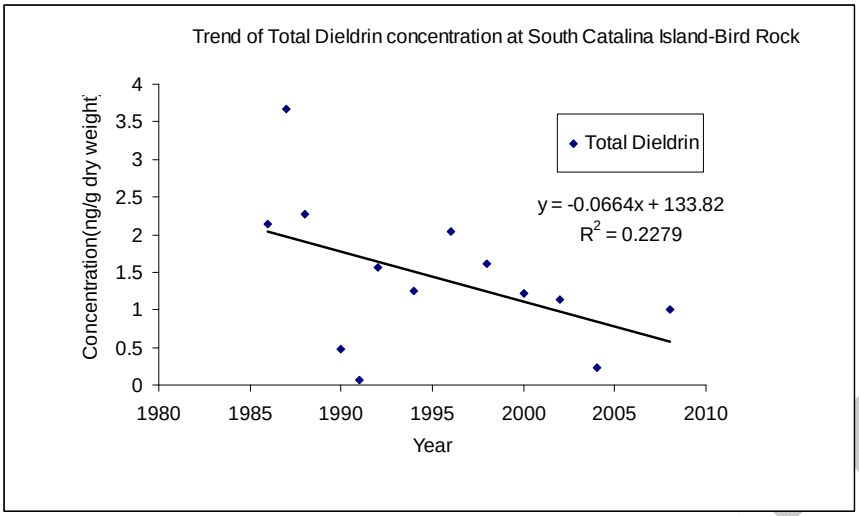


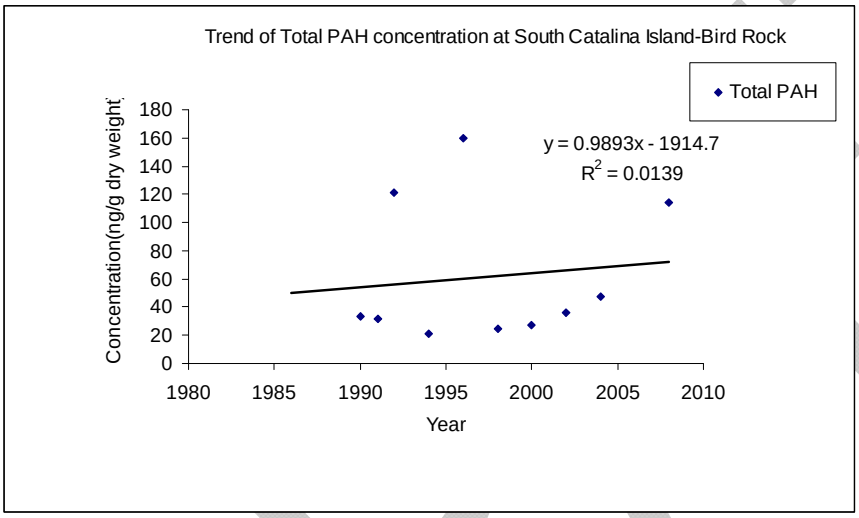


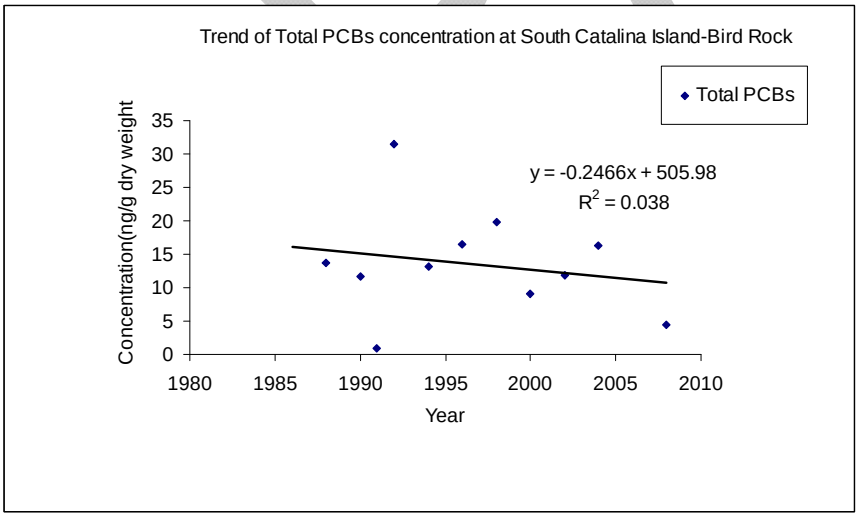

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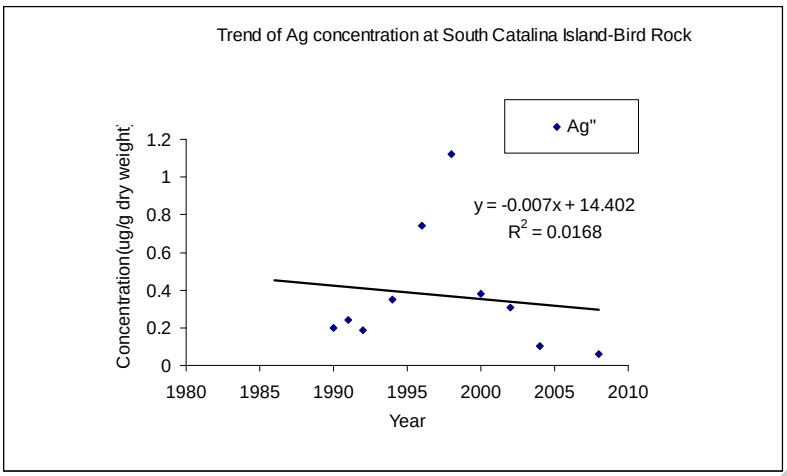


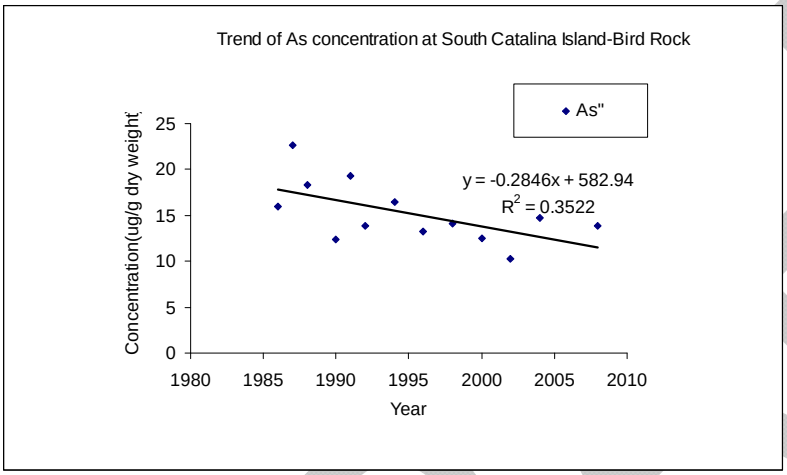


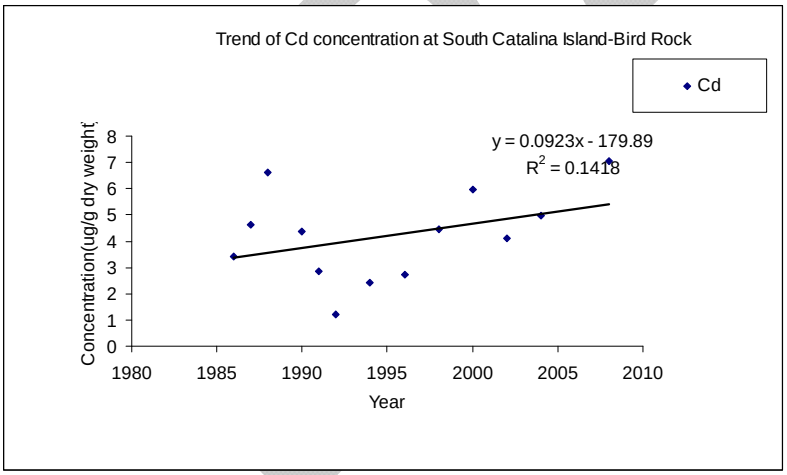

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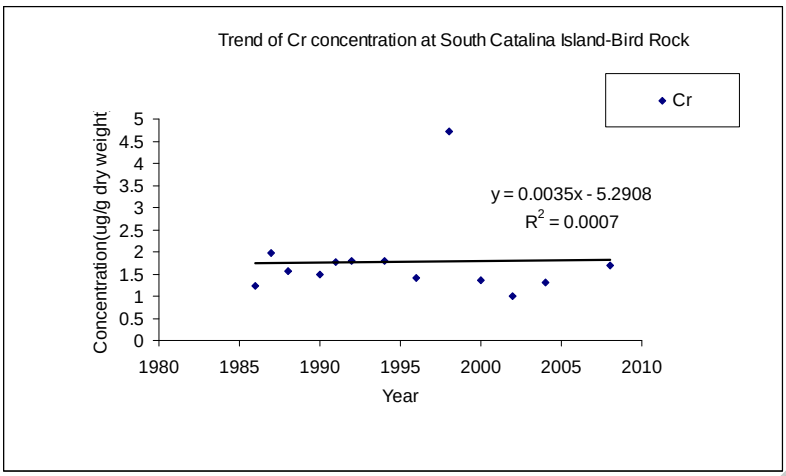


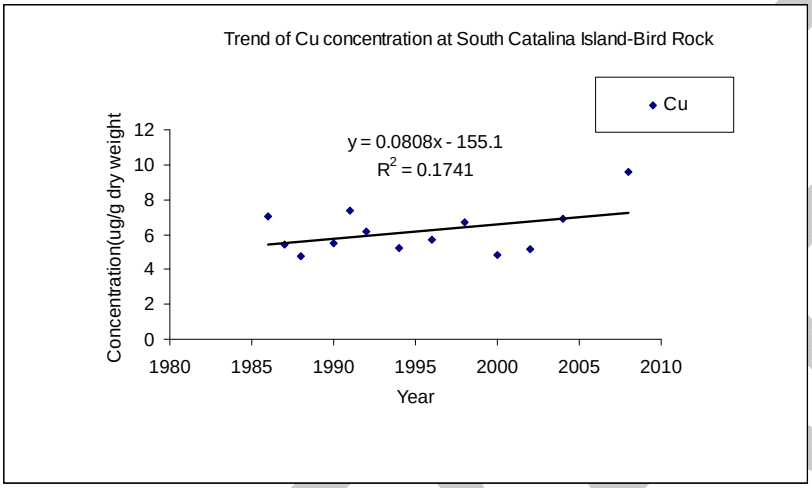


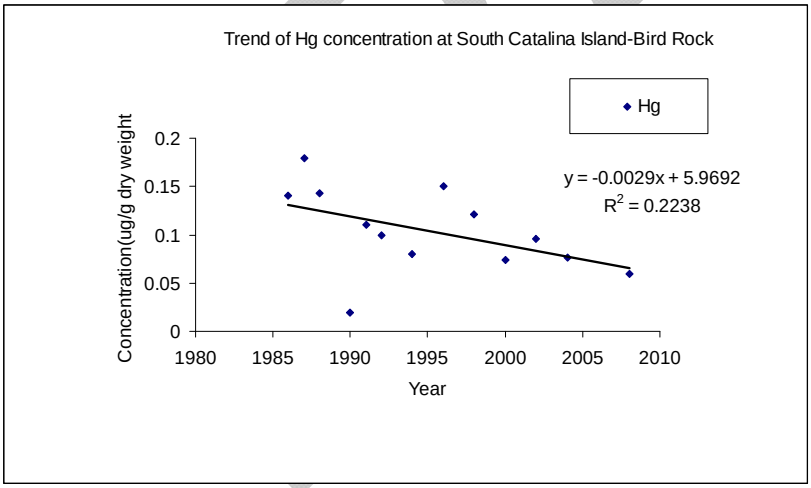

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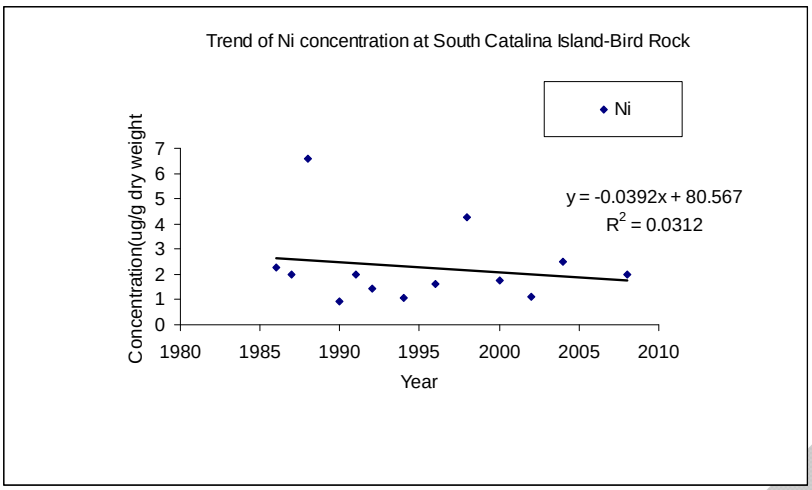


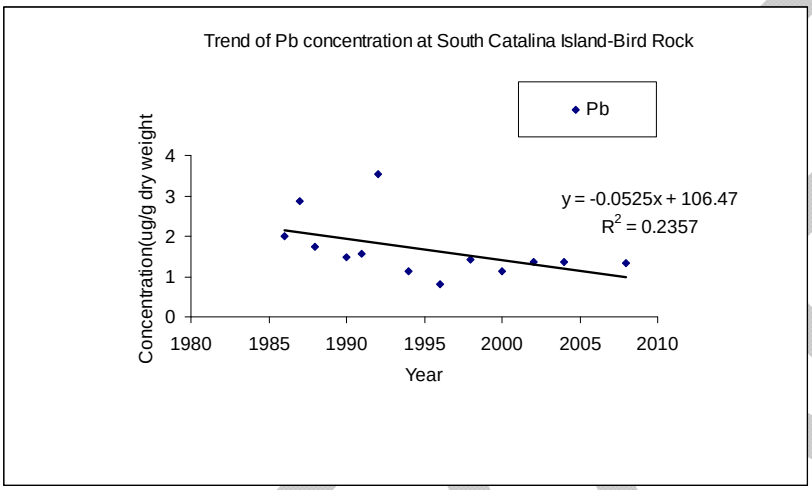


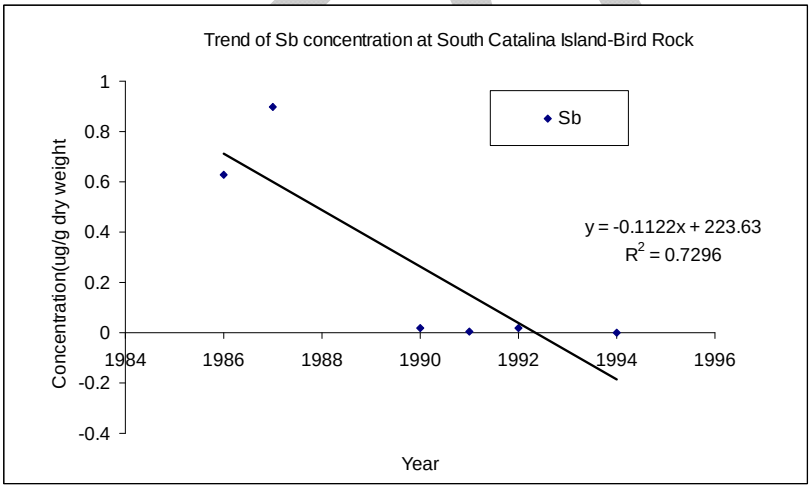

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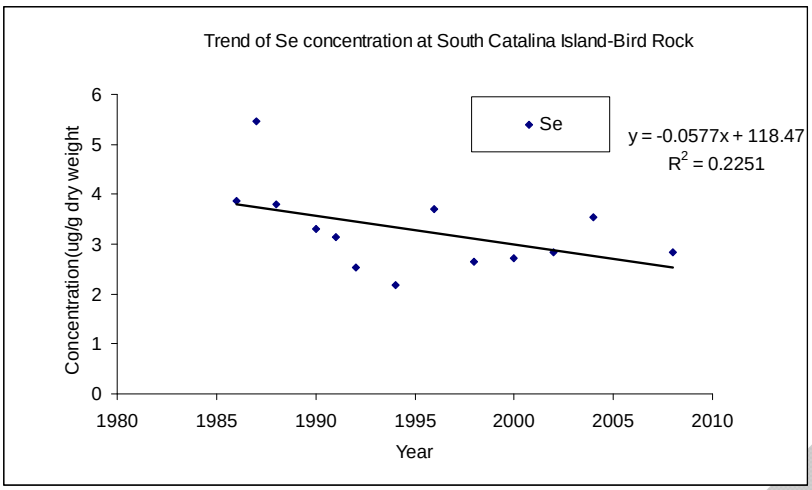
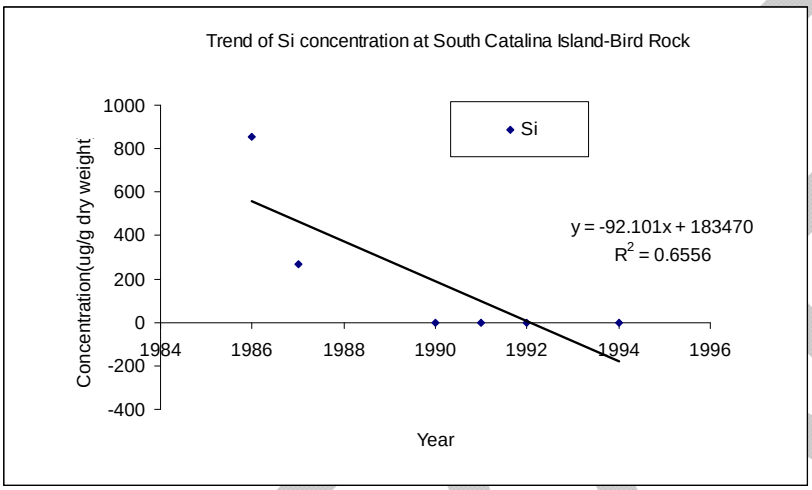
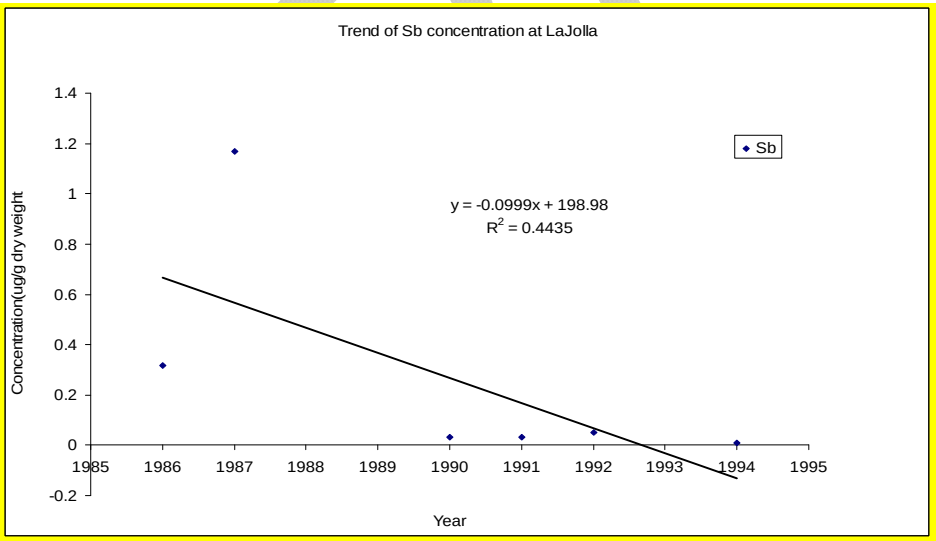
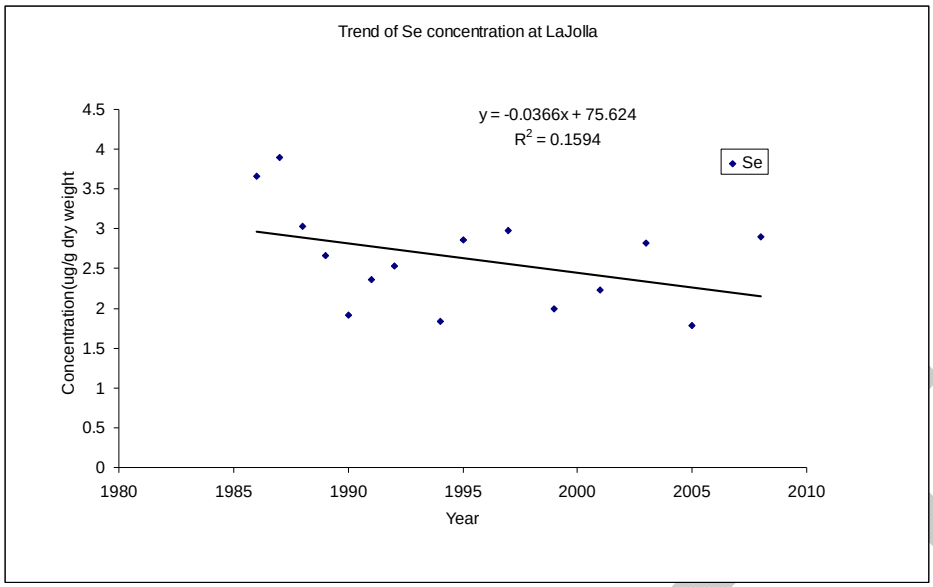
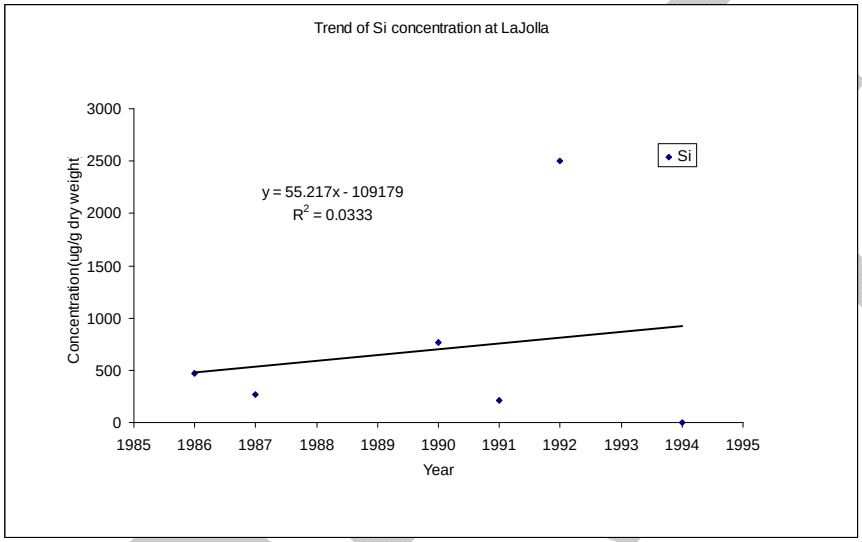


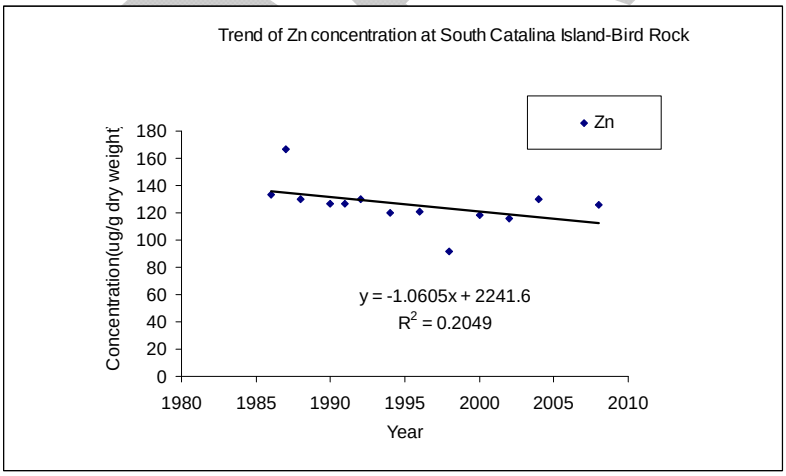



# Appendix 3: Mussel Watch Data



# Appendix 3: Mussel Watch Data

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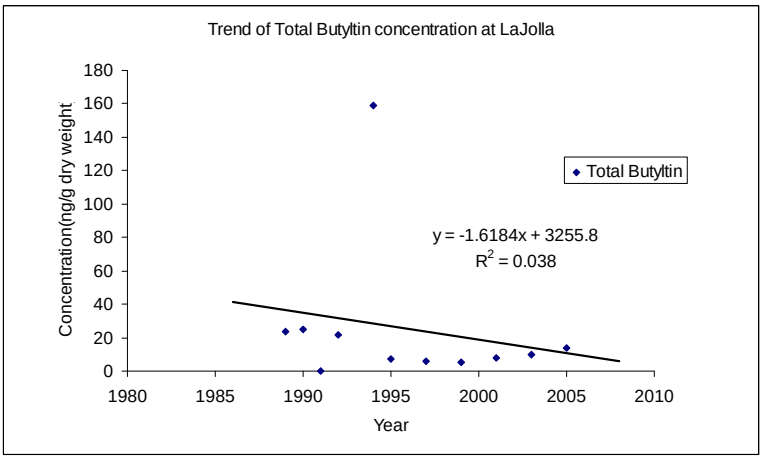


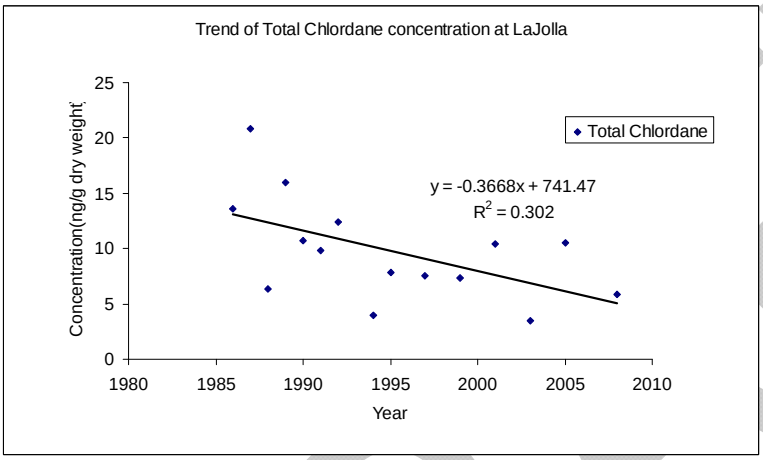


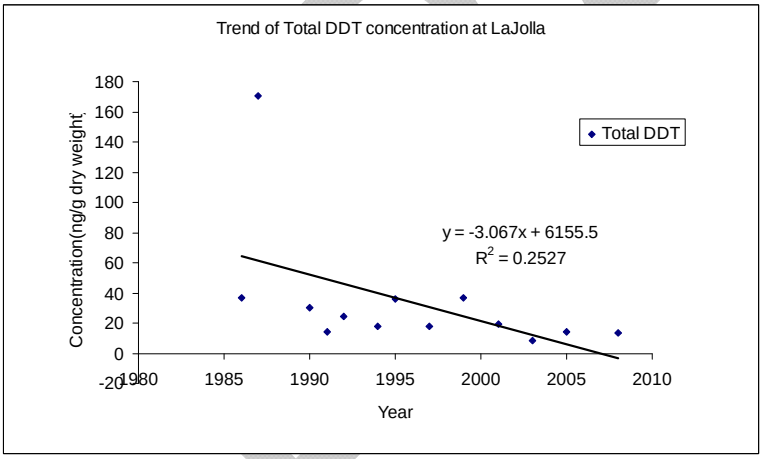

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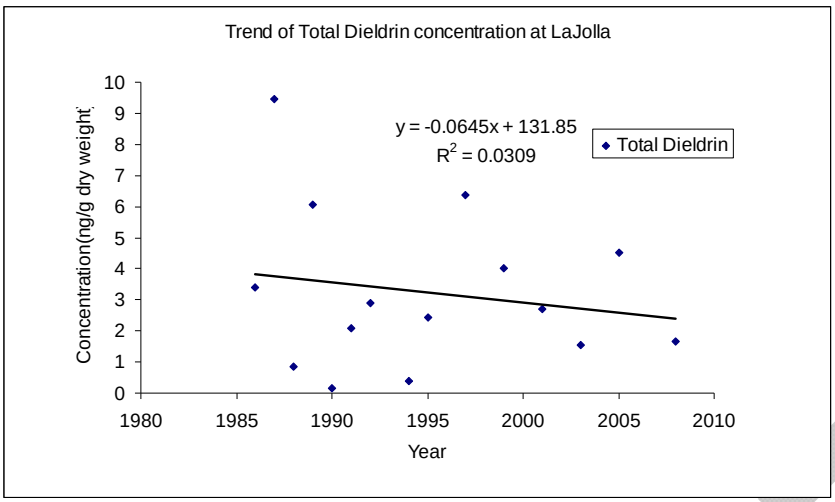


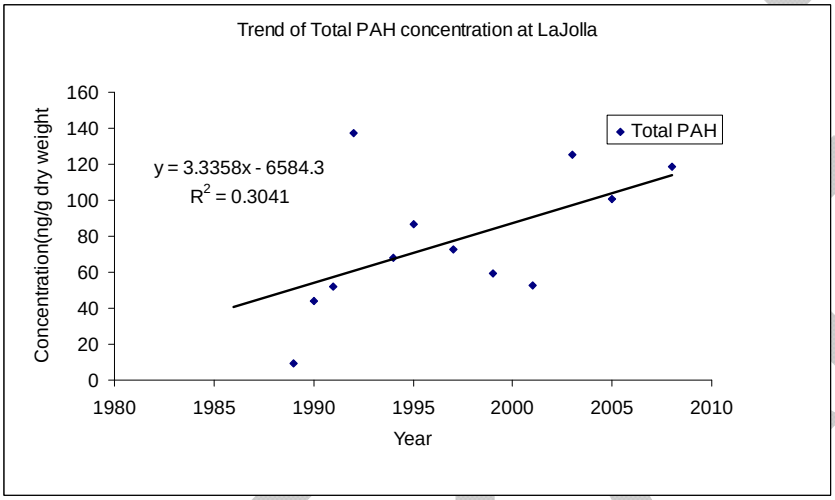


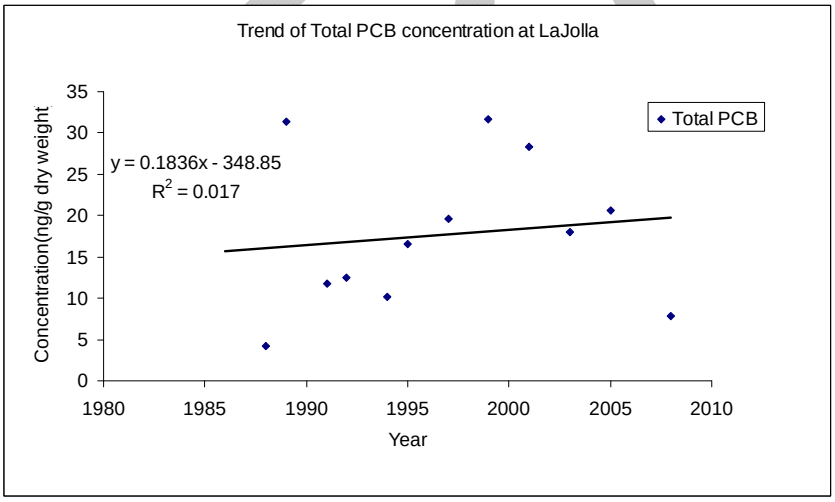

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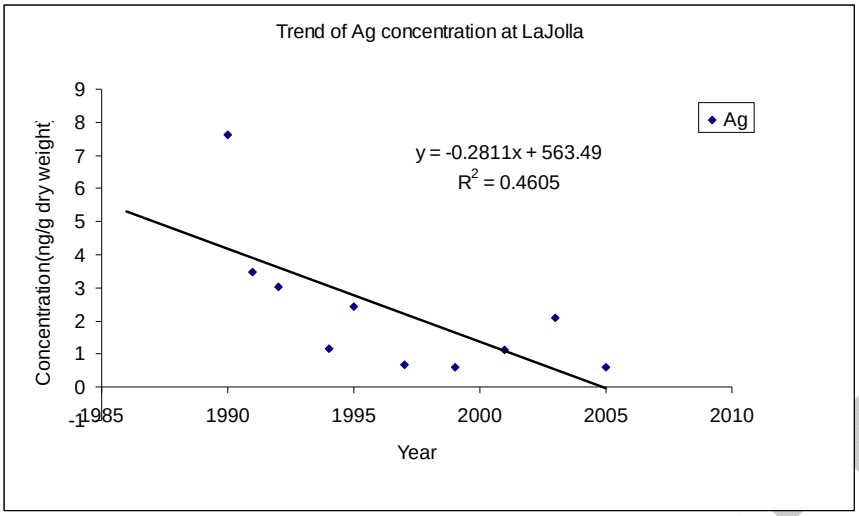


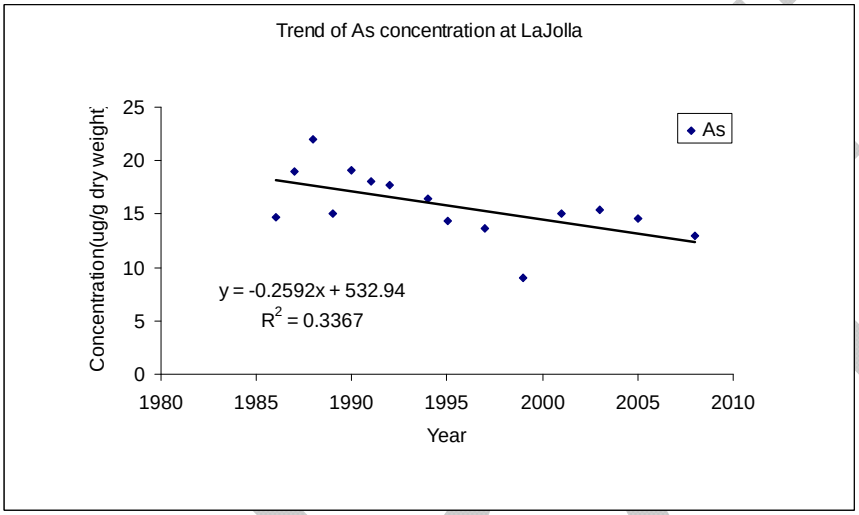


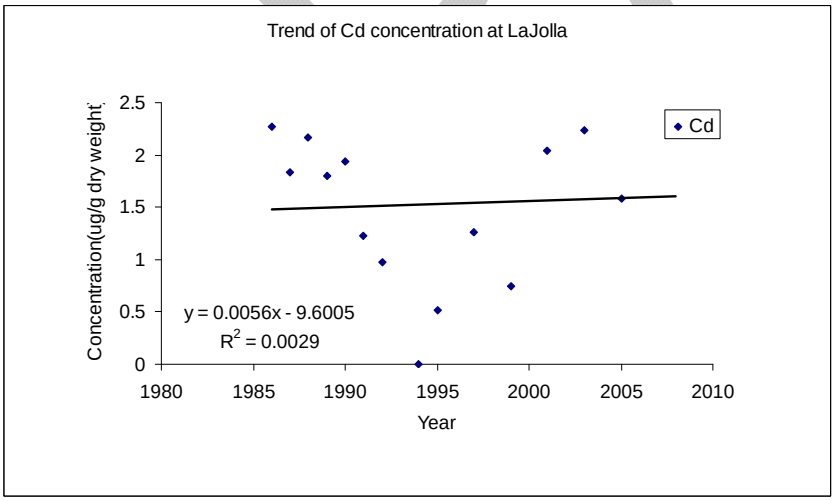

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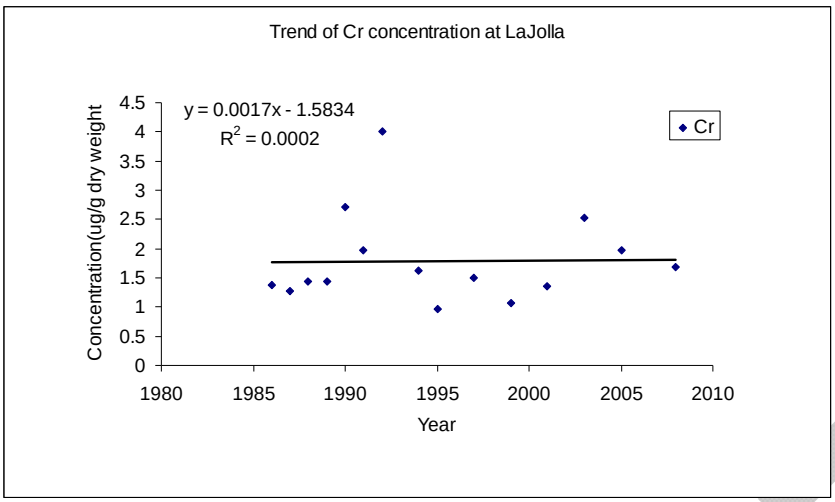


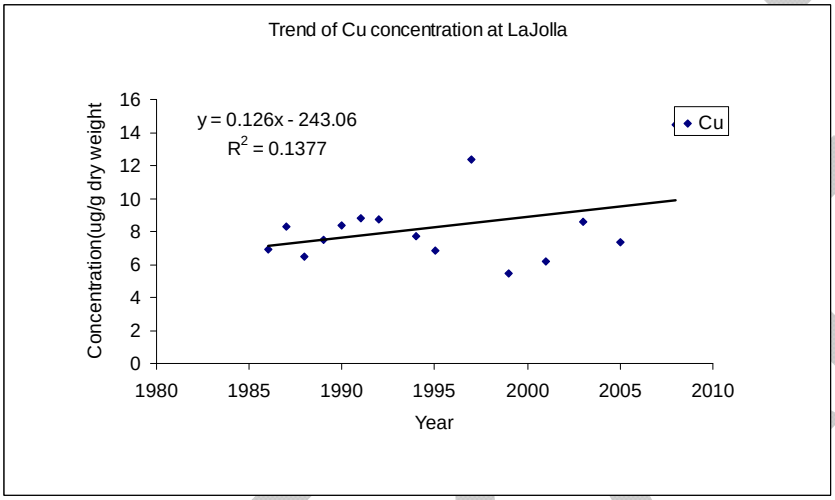


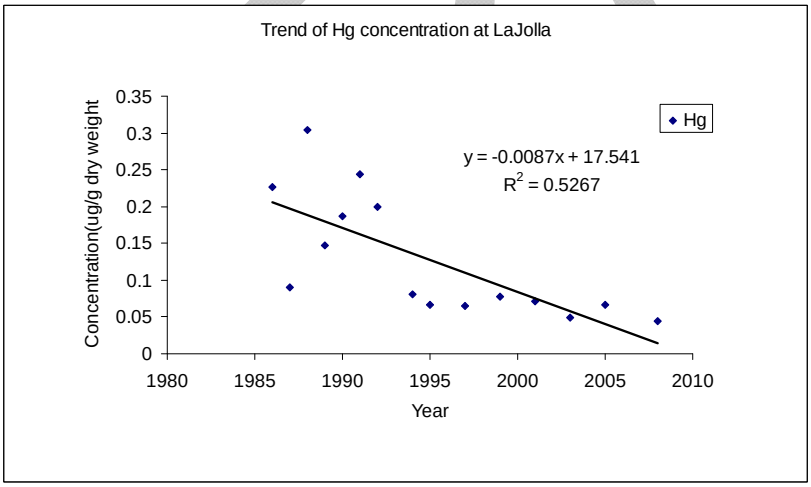

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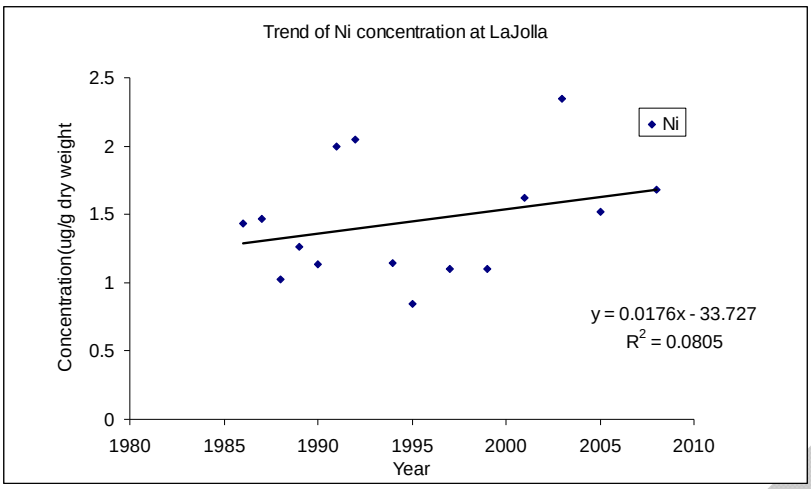


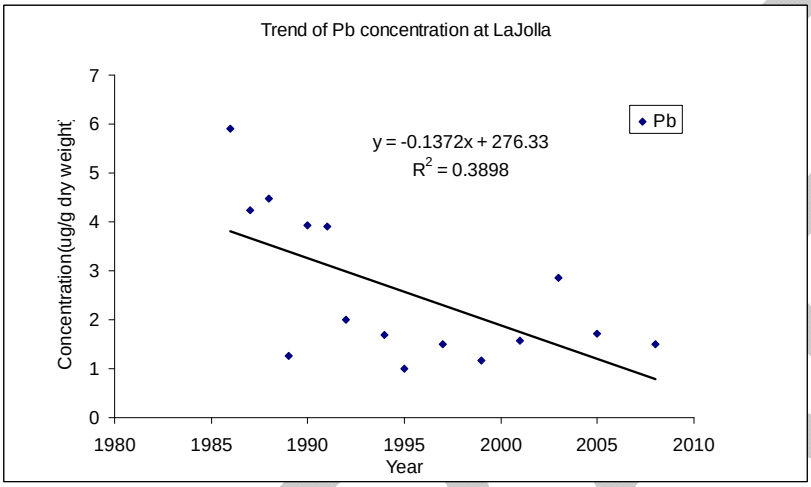


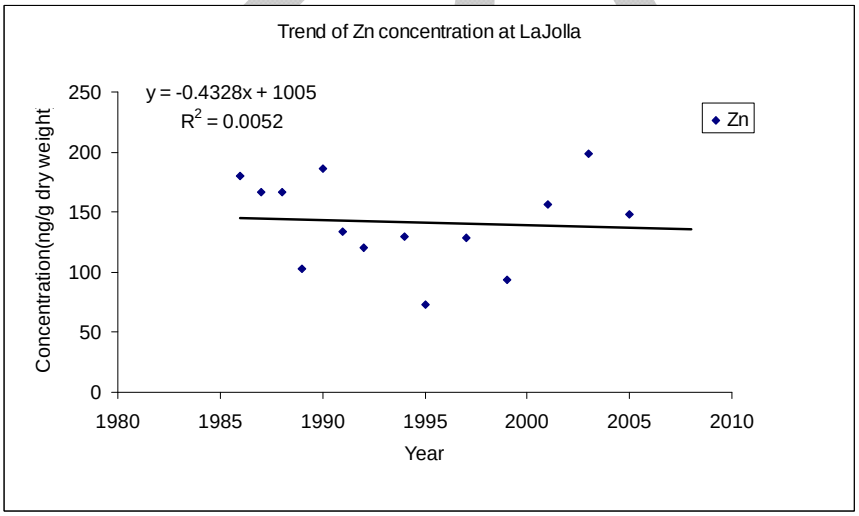

# Appendix 3: Mussel Watch Data

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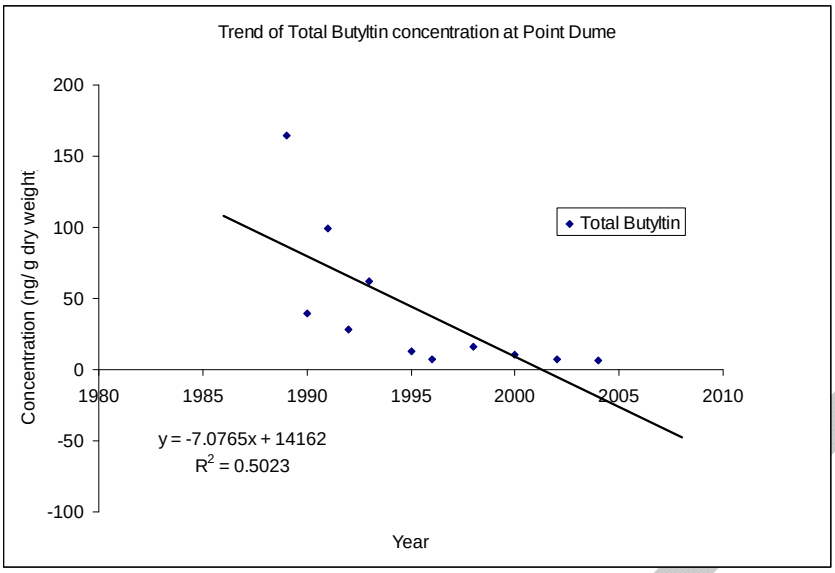


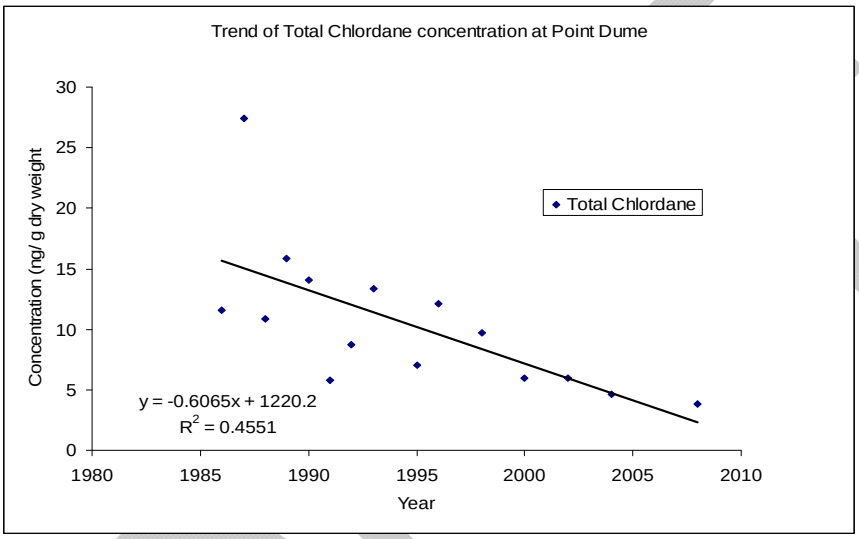


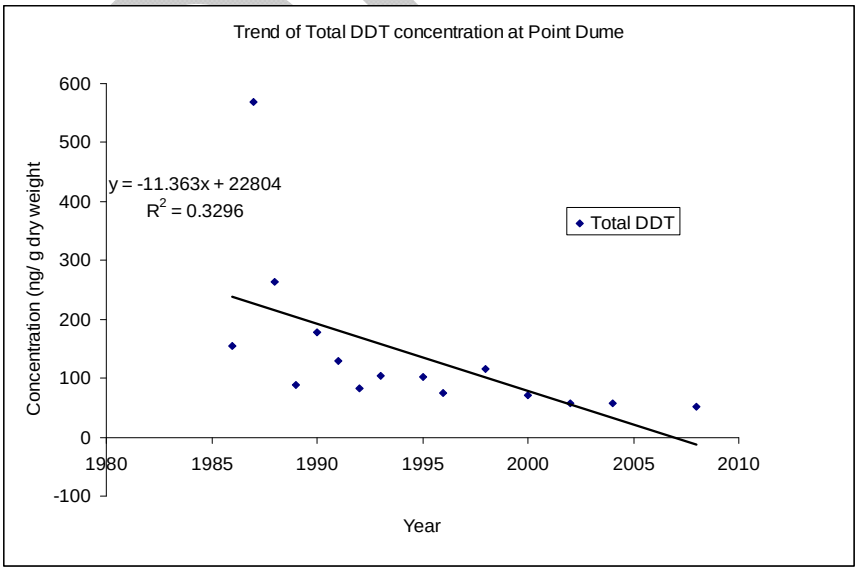

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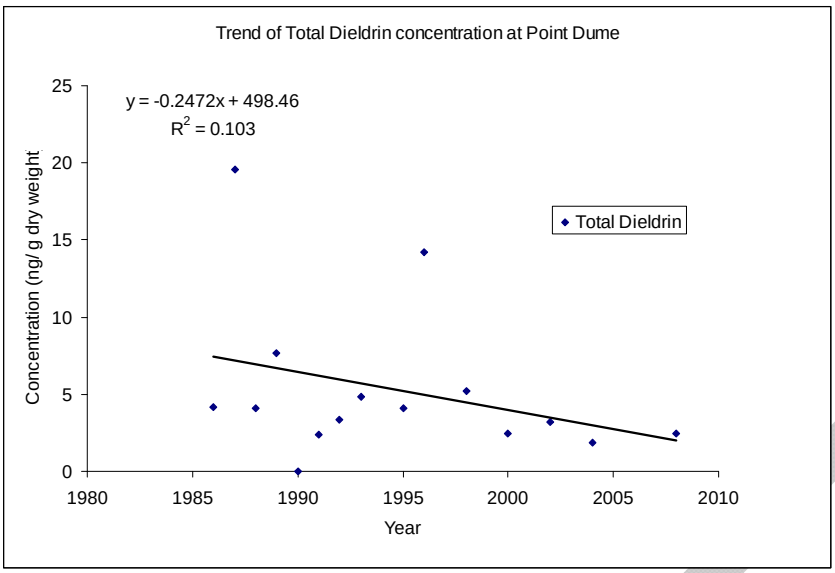


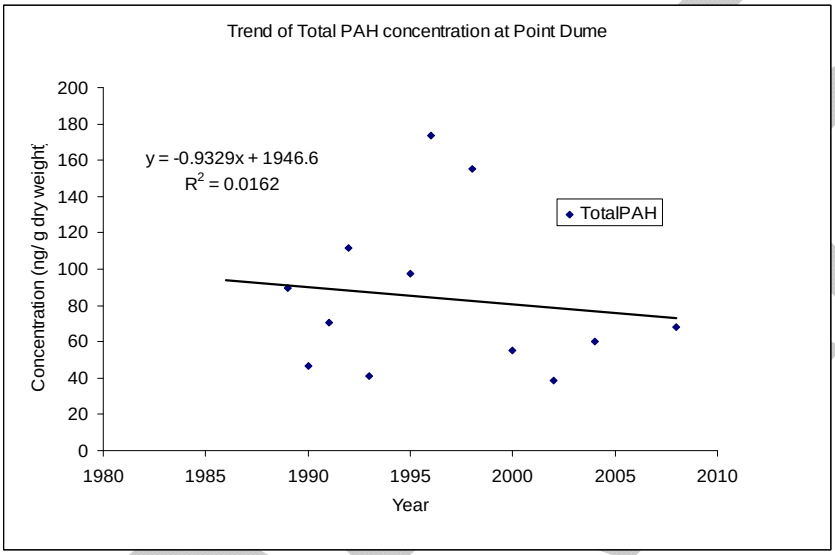


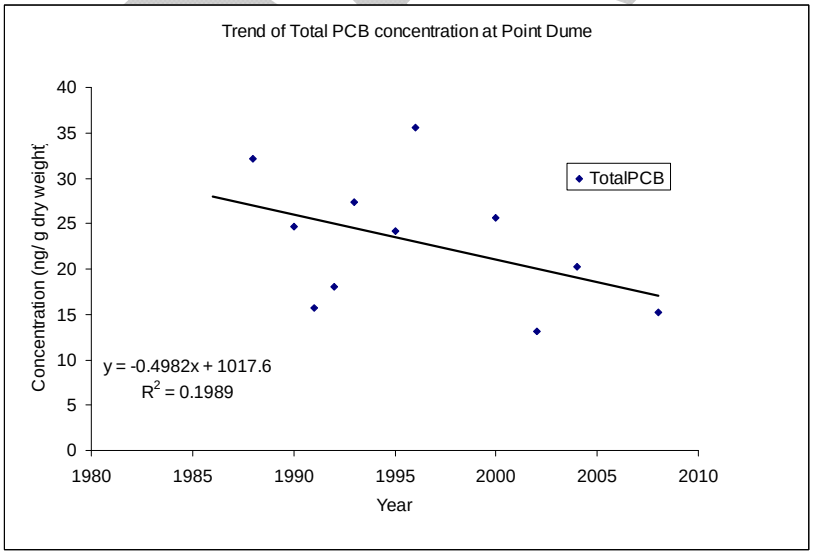

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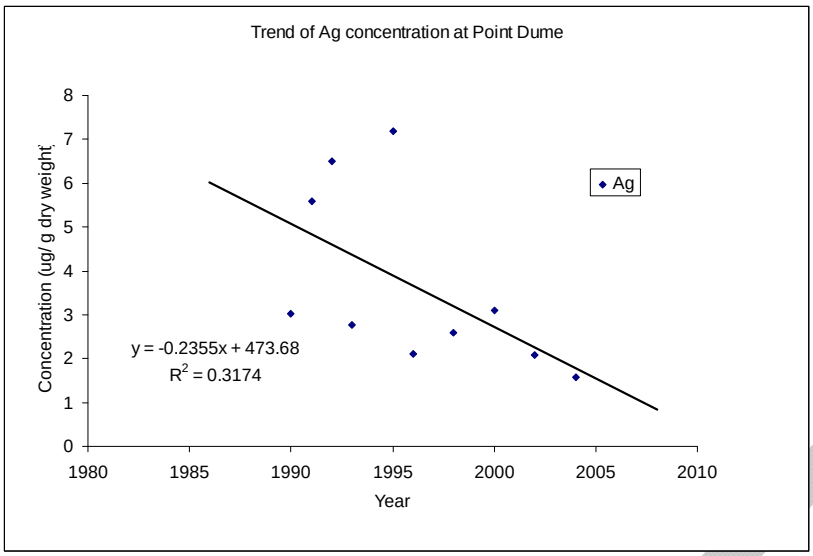


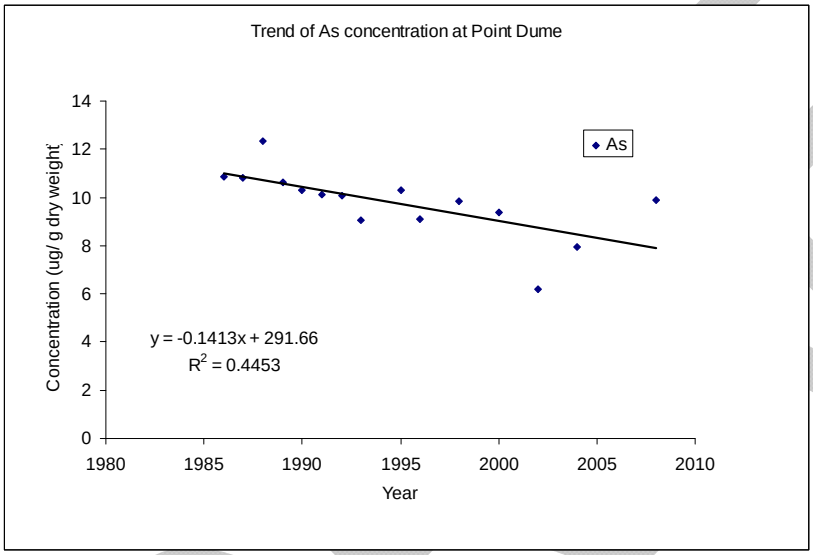


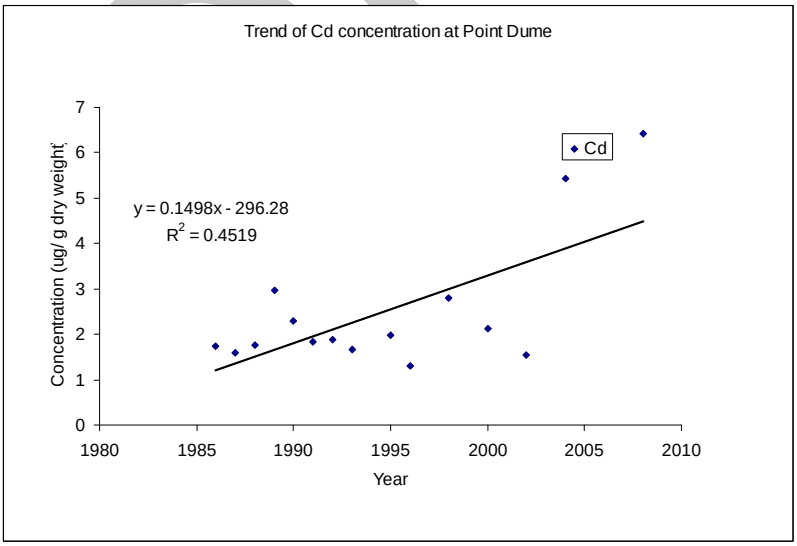

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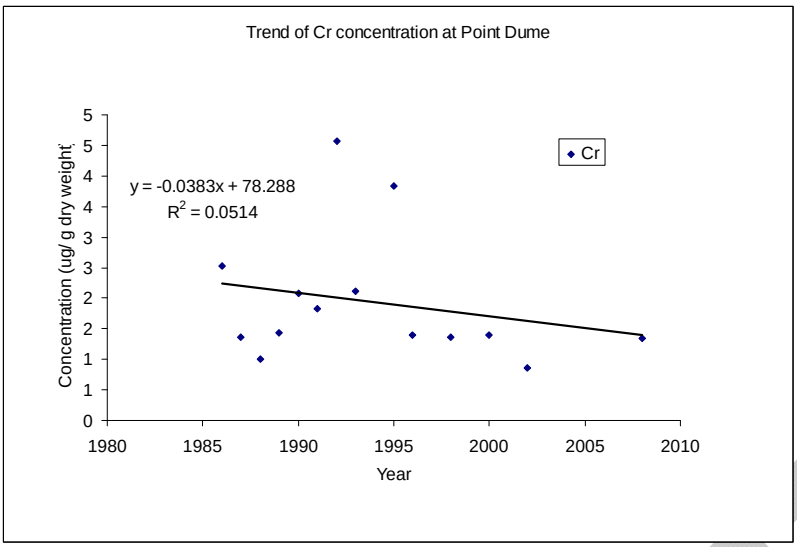


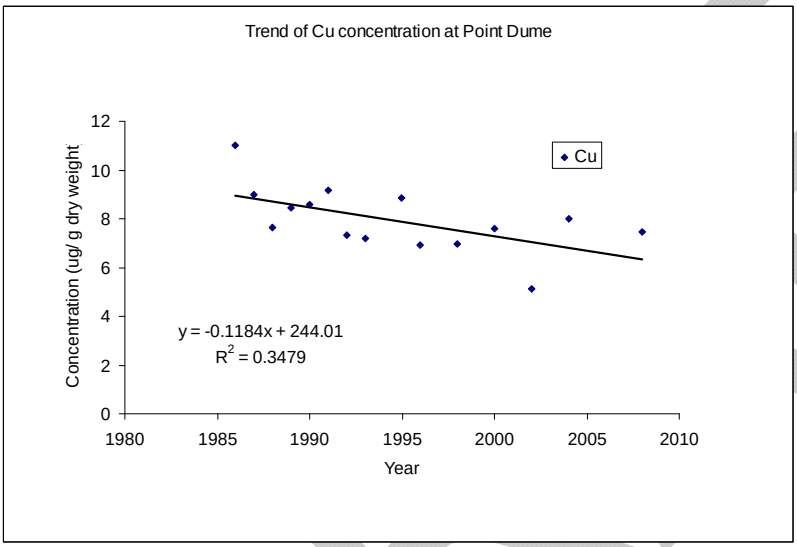


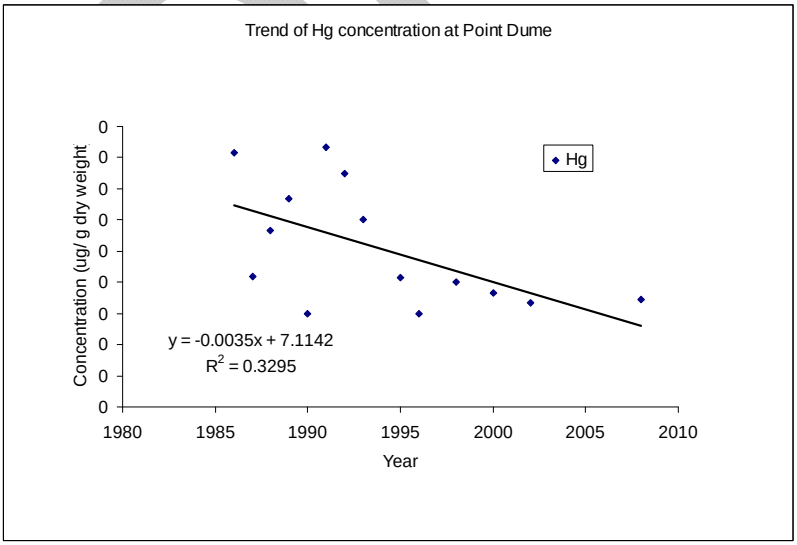

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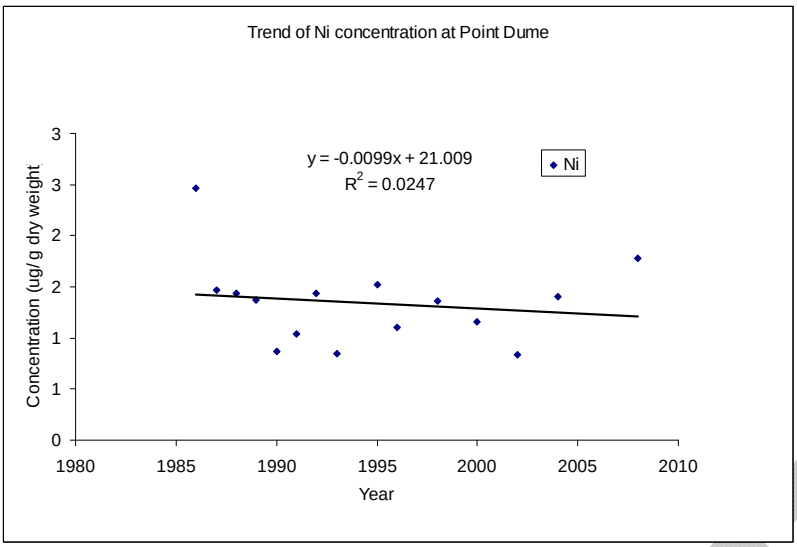


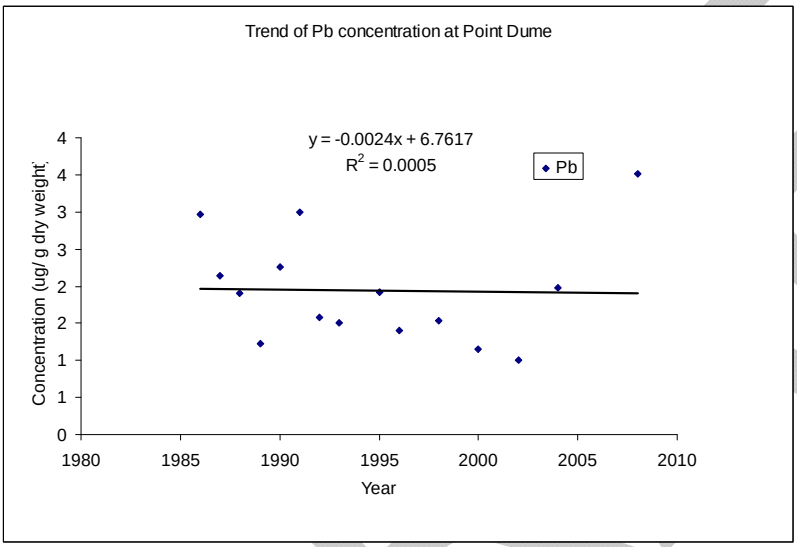


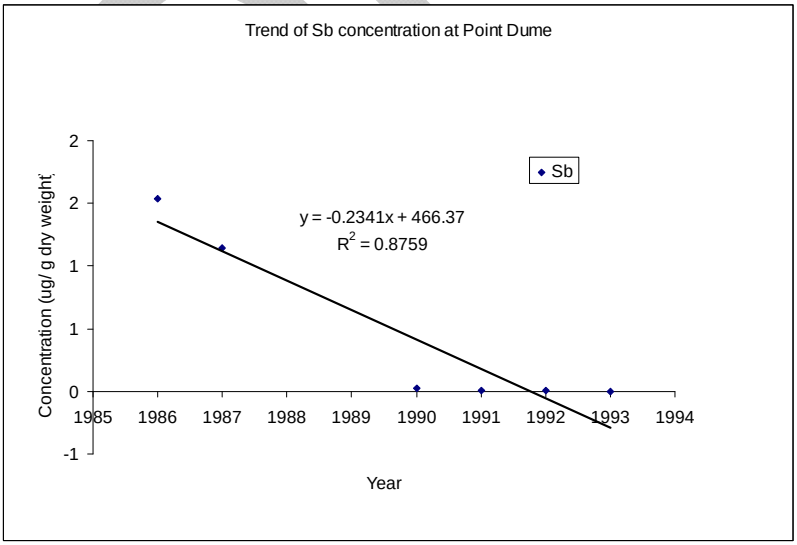

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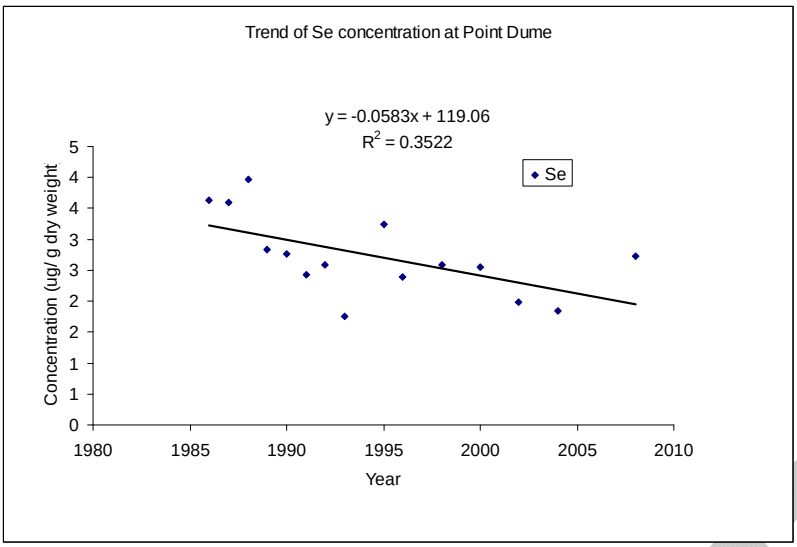


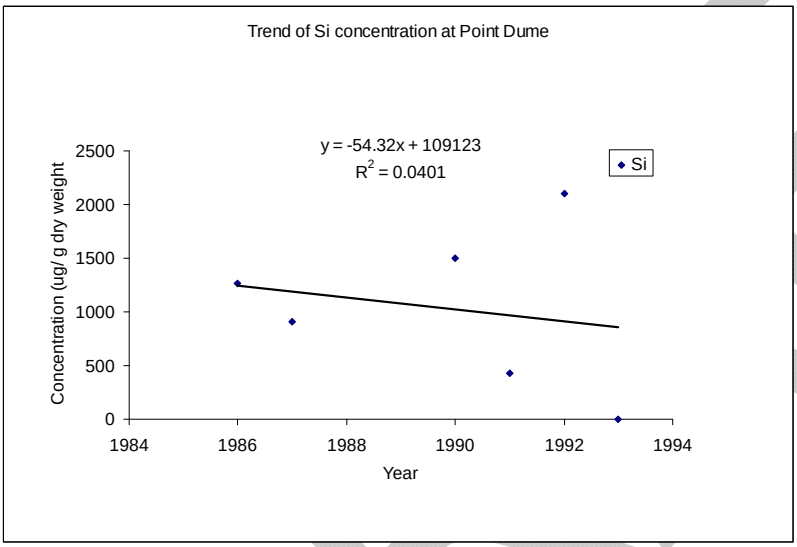


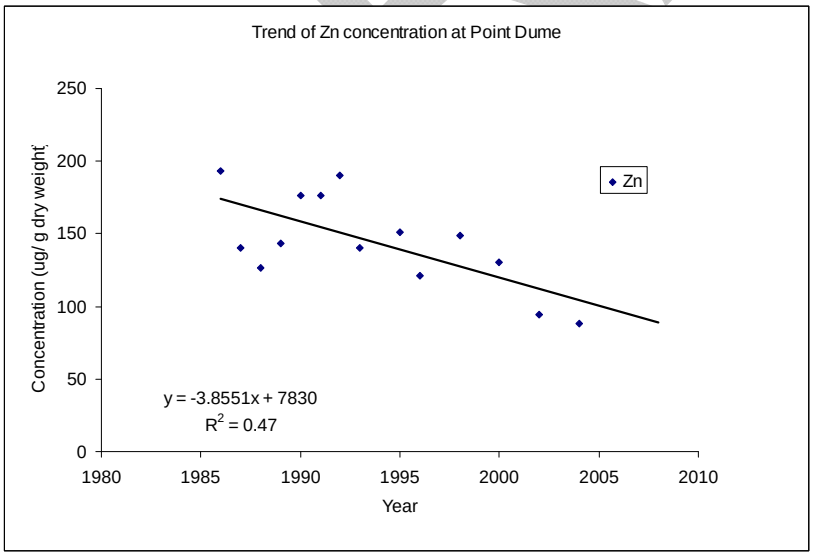

# Appendix 3: Mussel Watch Data

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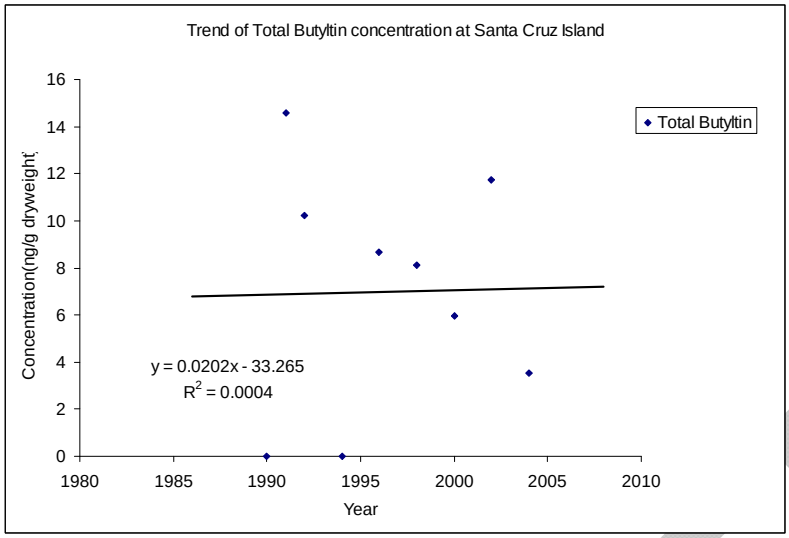


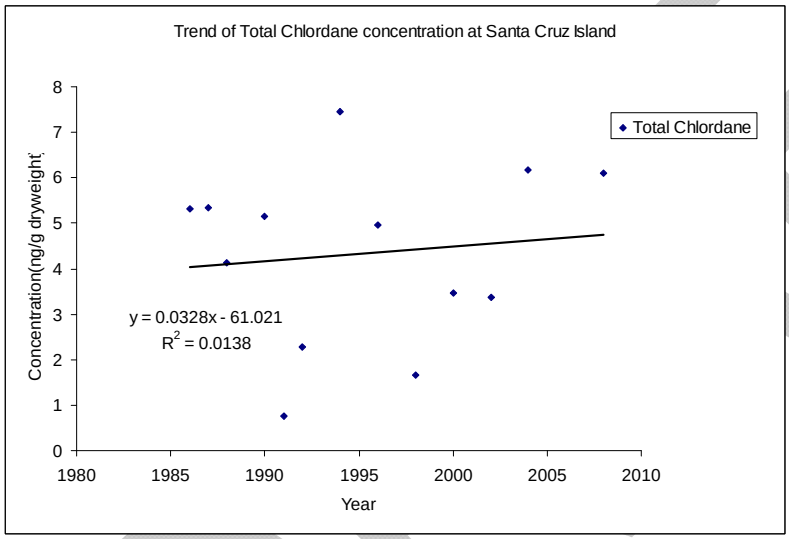


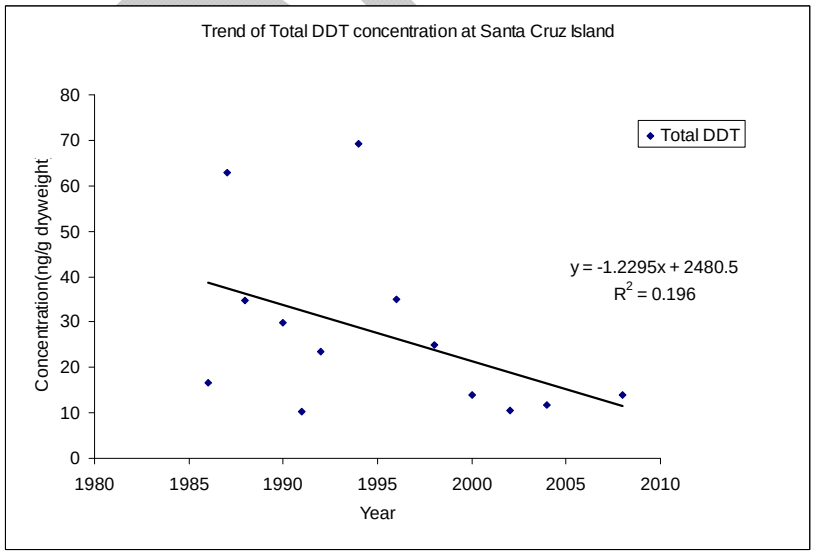

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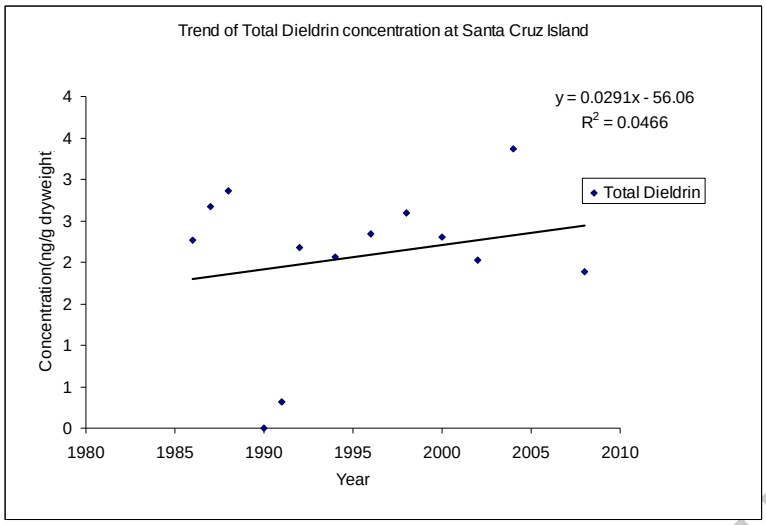


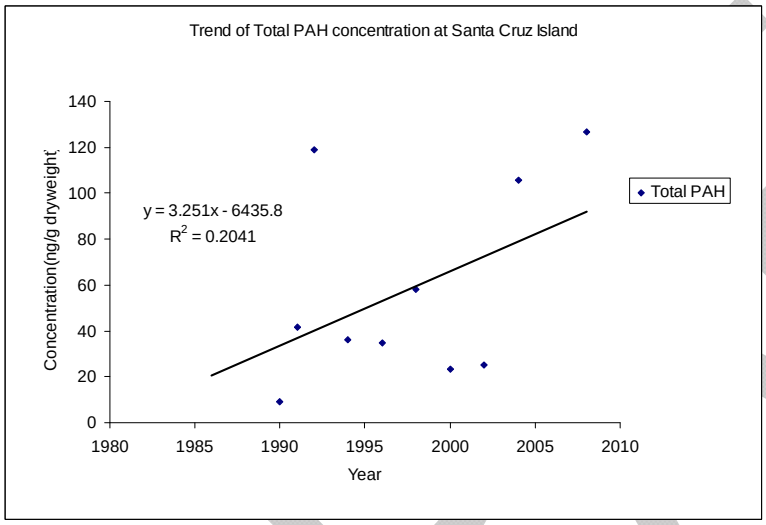


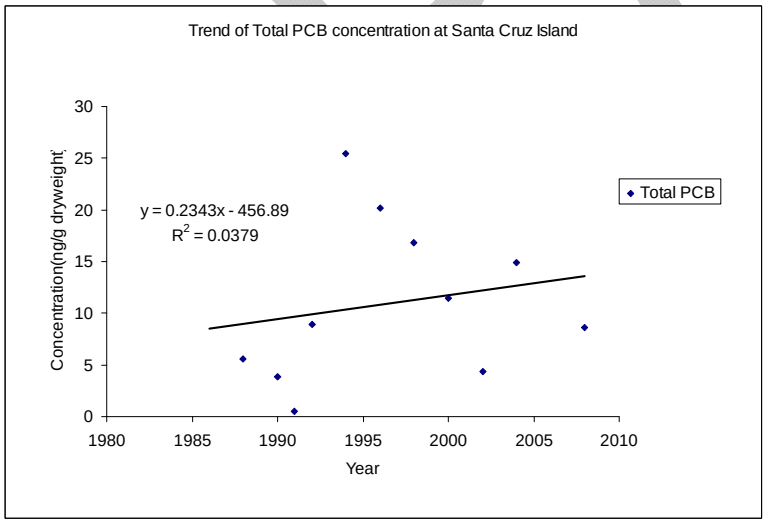

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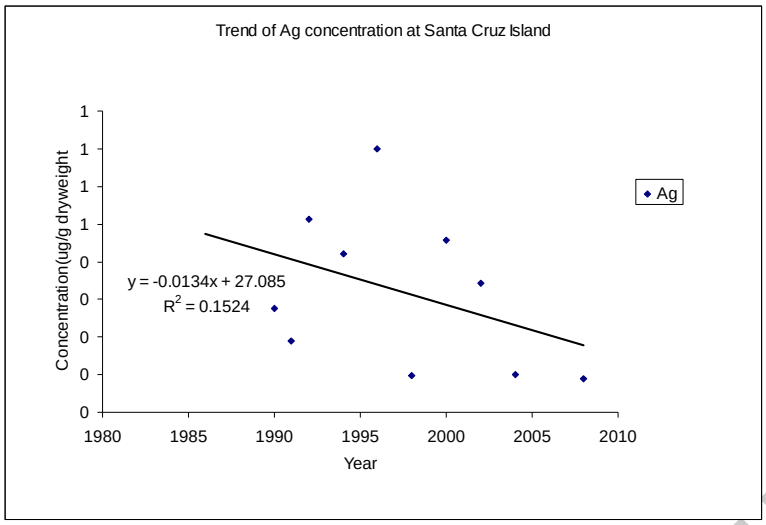


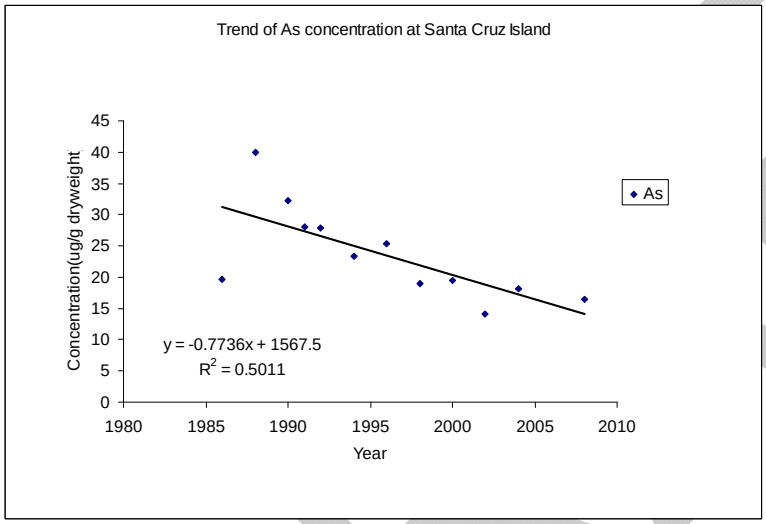


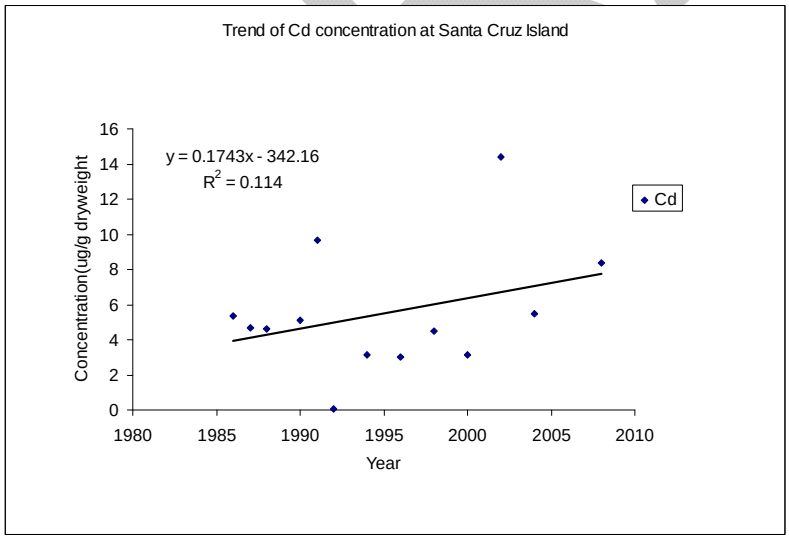

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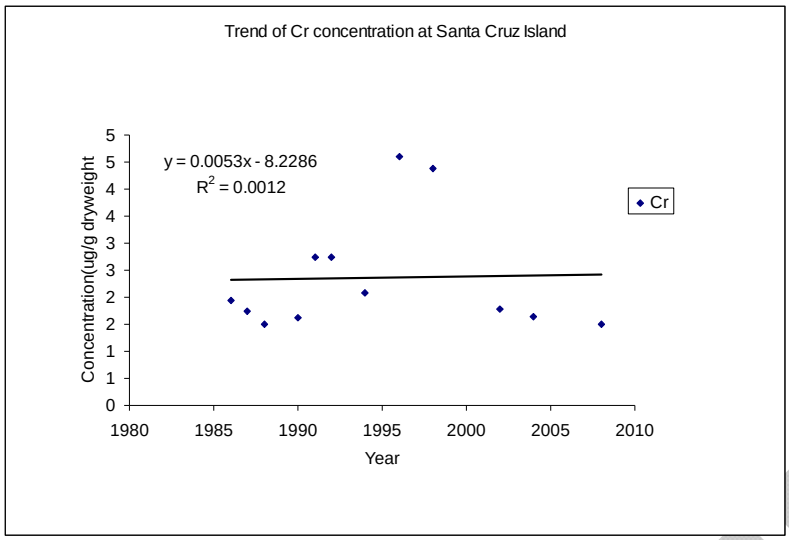


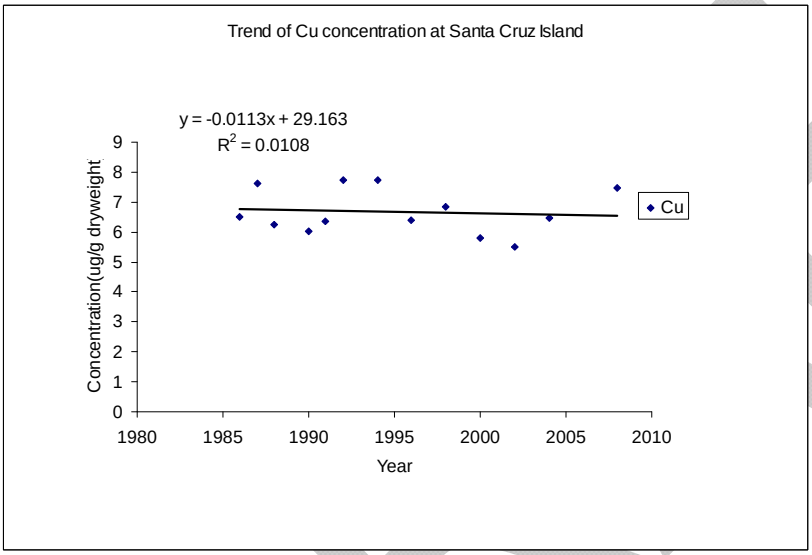


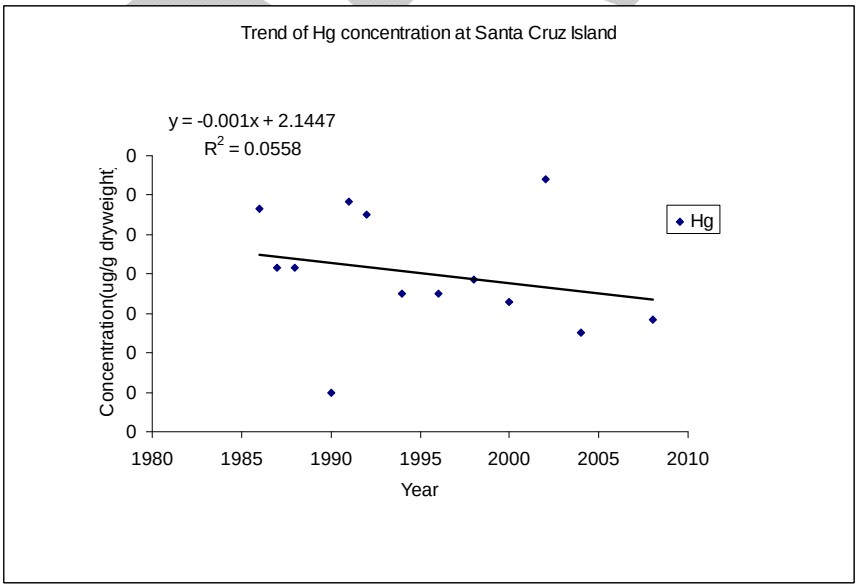

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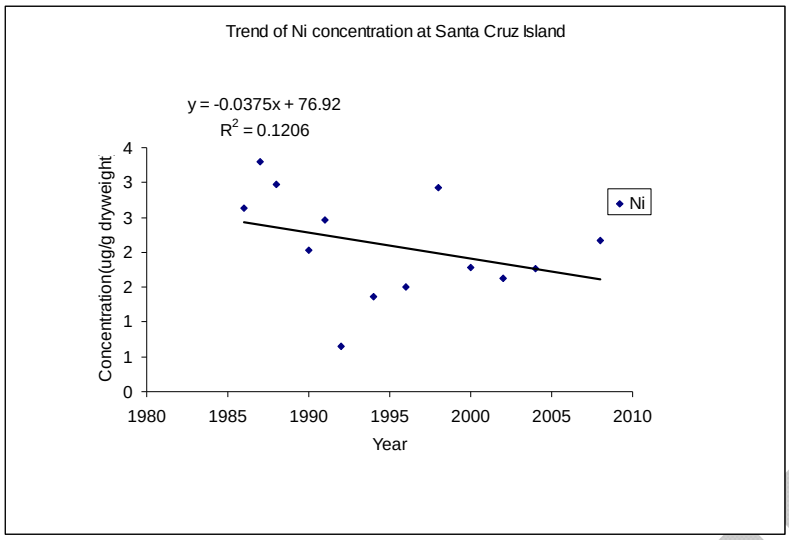


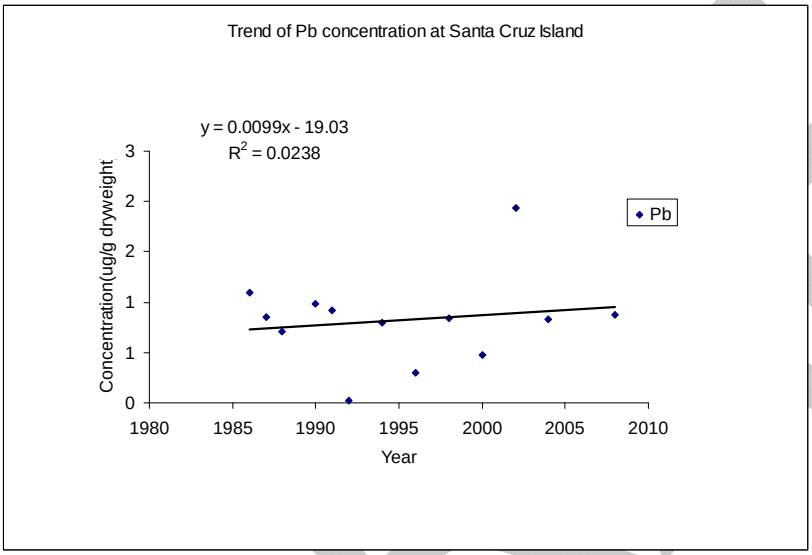


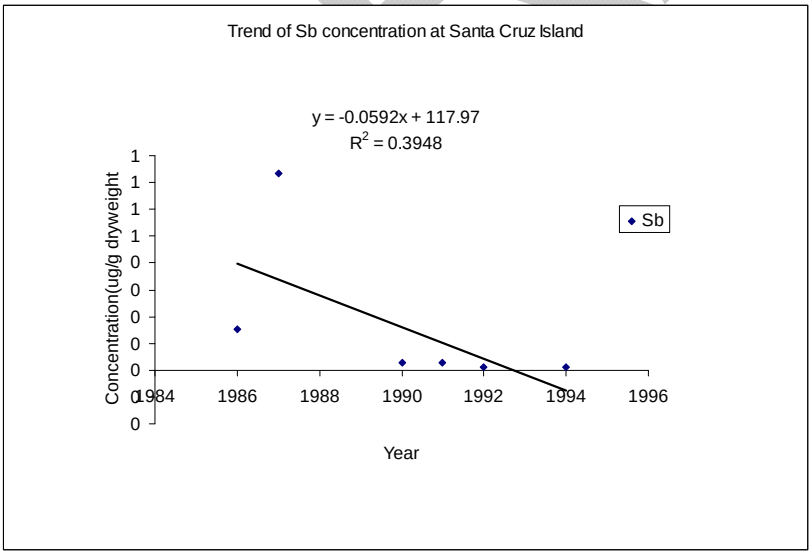

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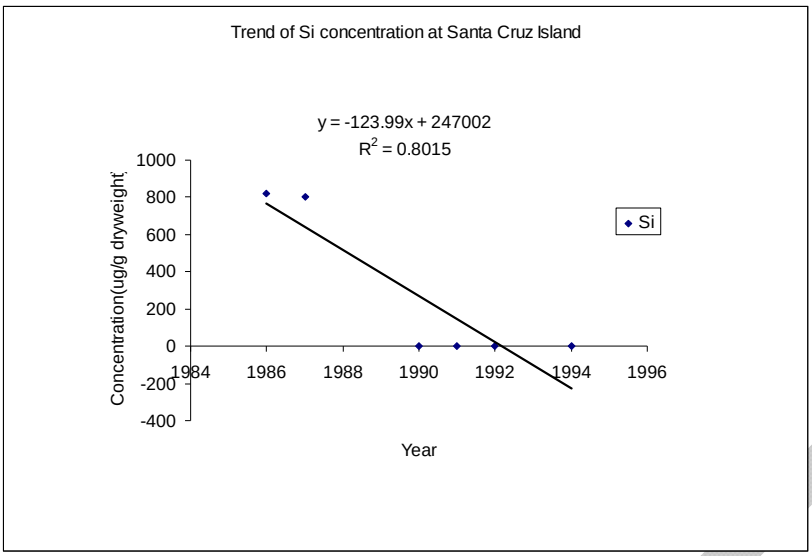
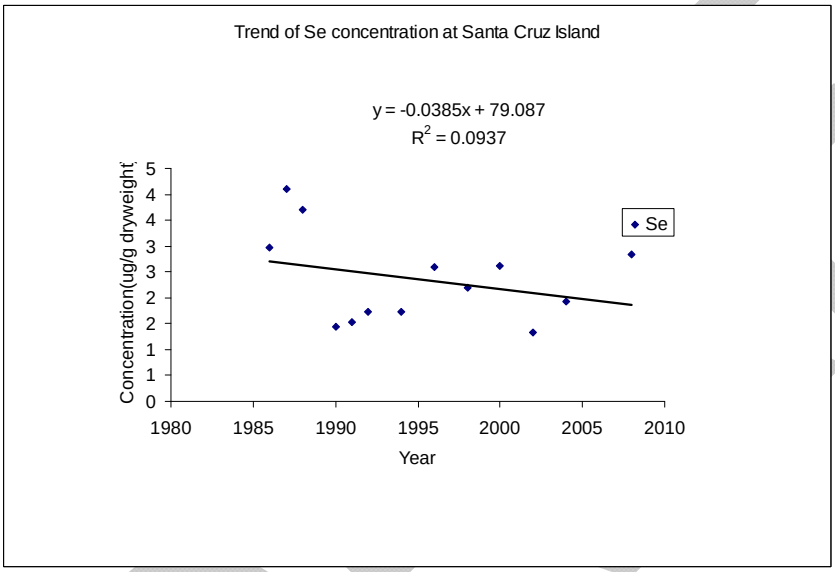
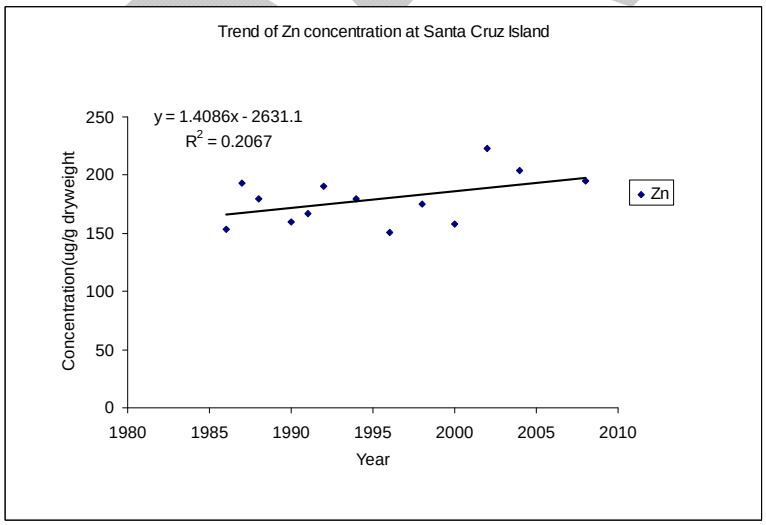
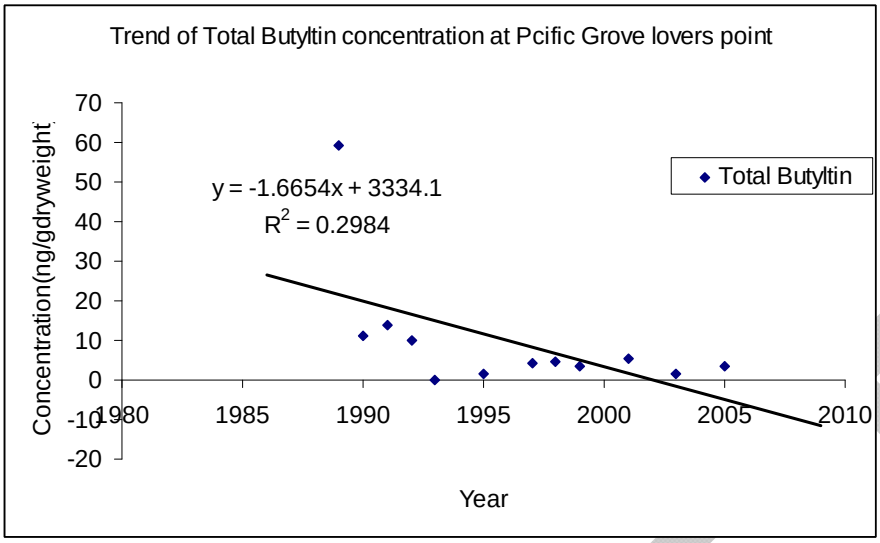


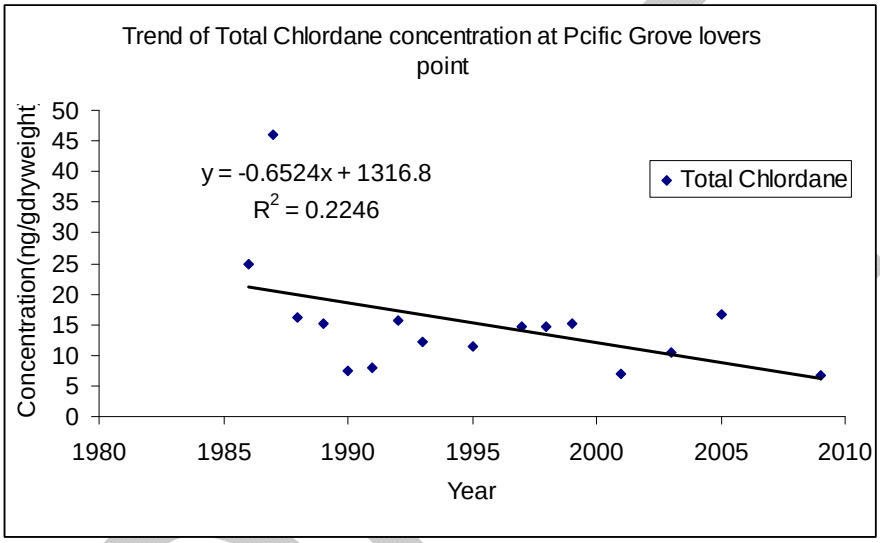



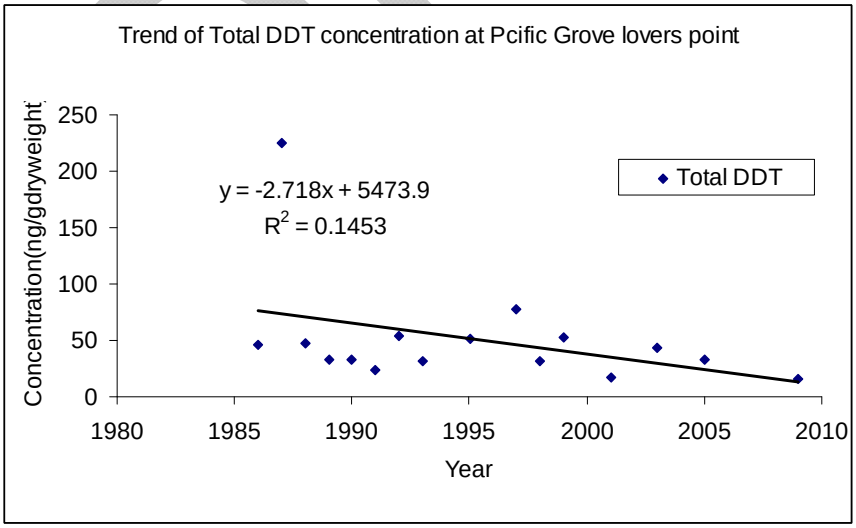



# Appendix 3: Mussel Watch Data

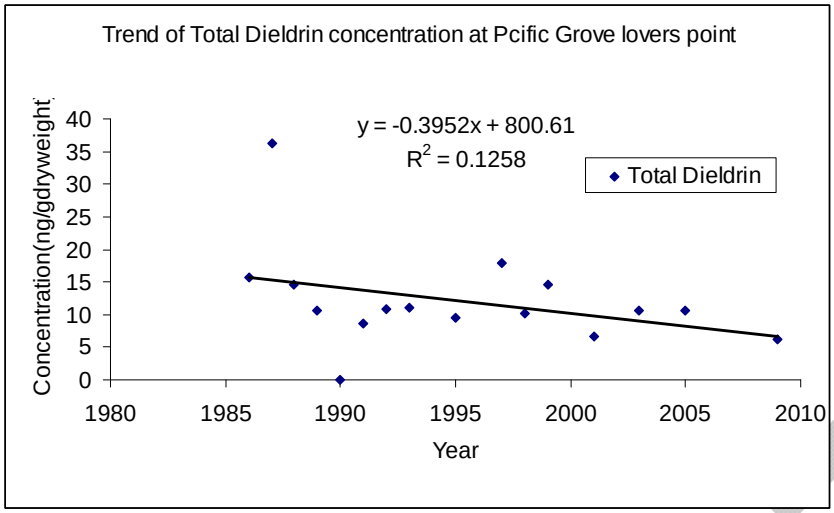
Pacific Grove Lovers Point

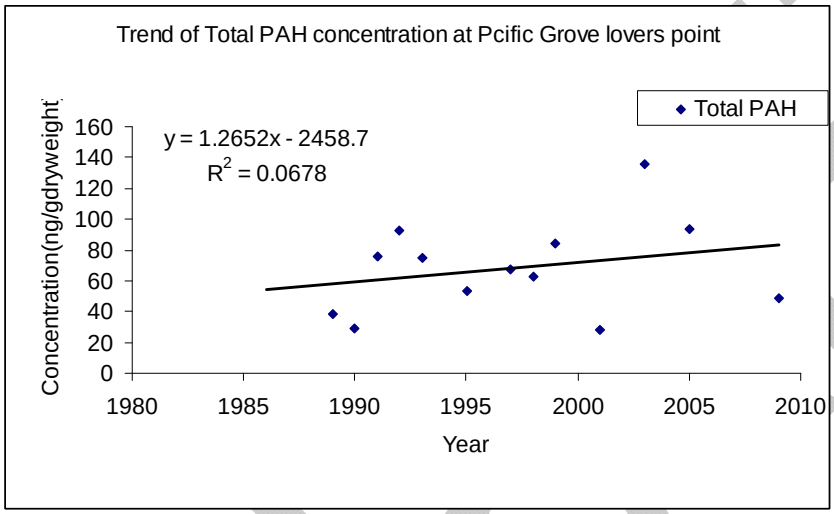


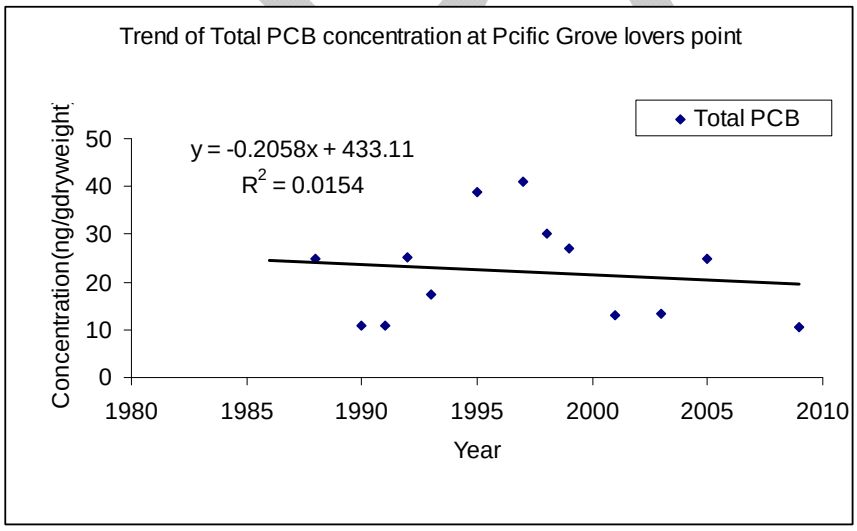



# Appendix 3: Mussel Watch Data



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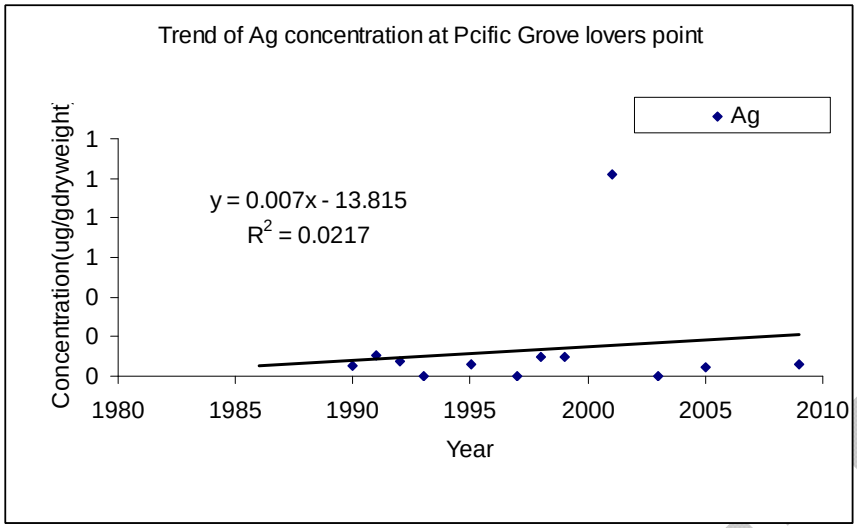


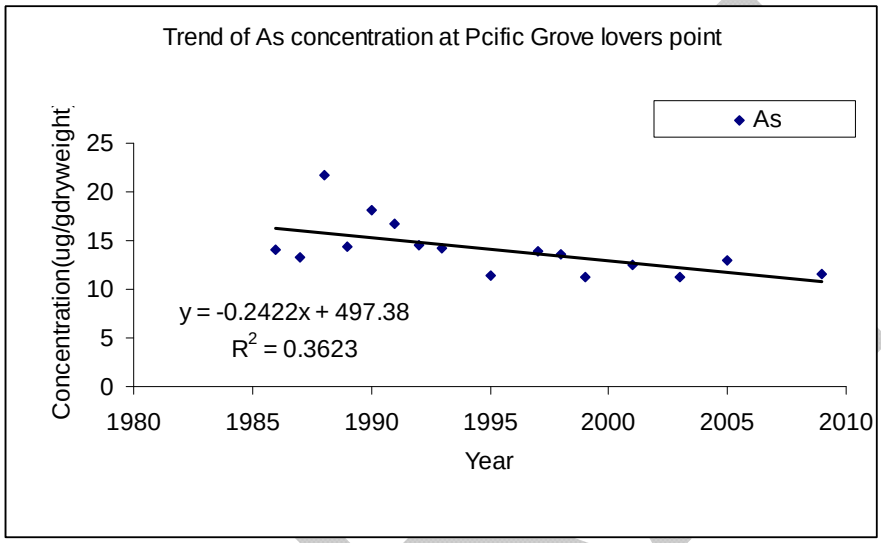


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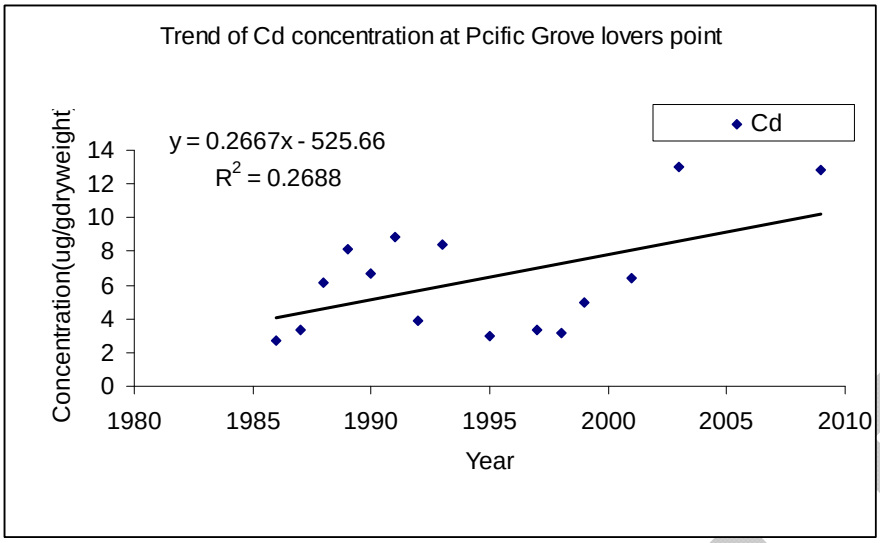


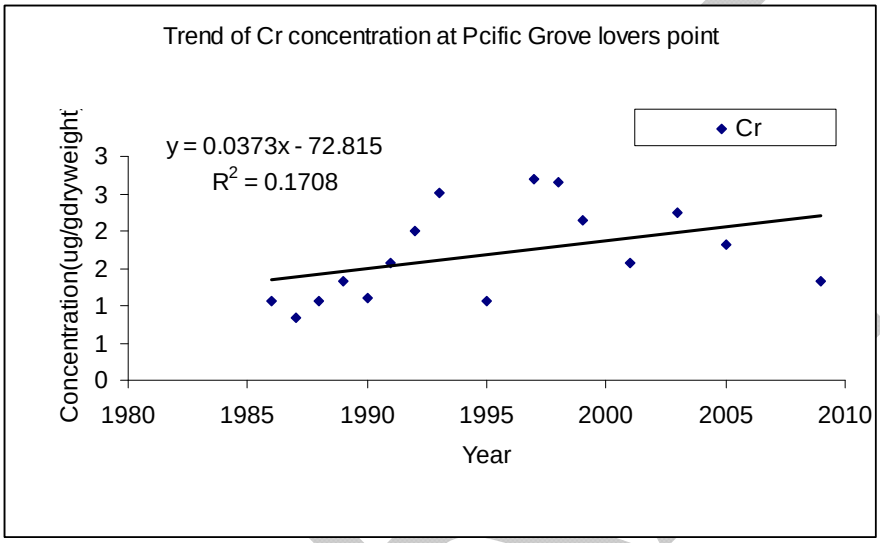


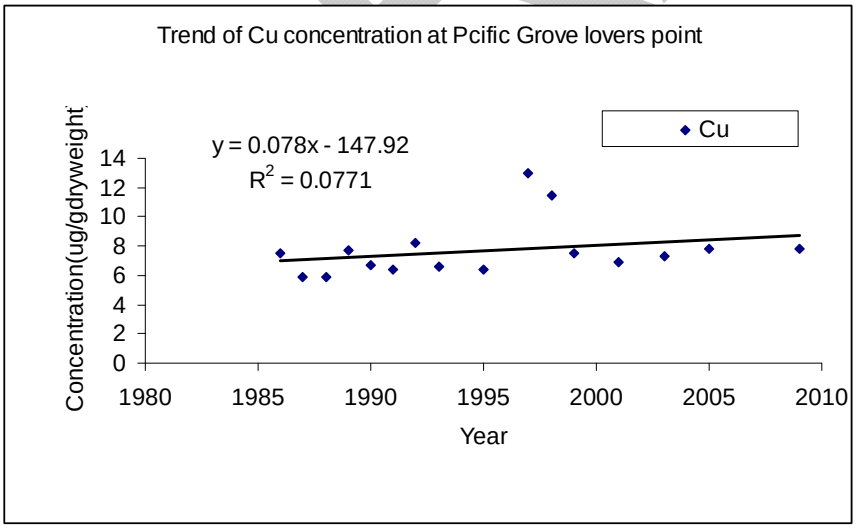

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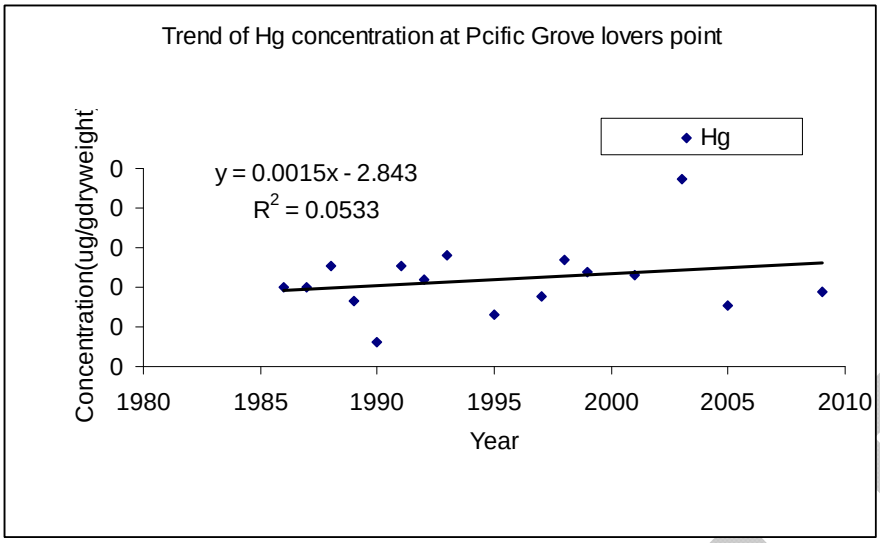


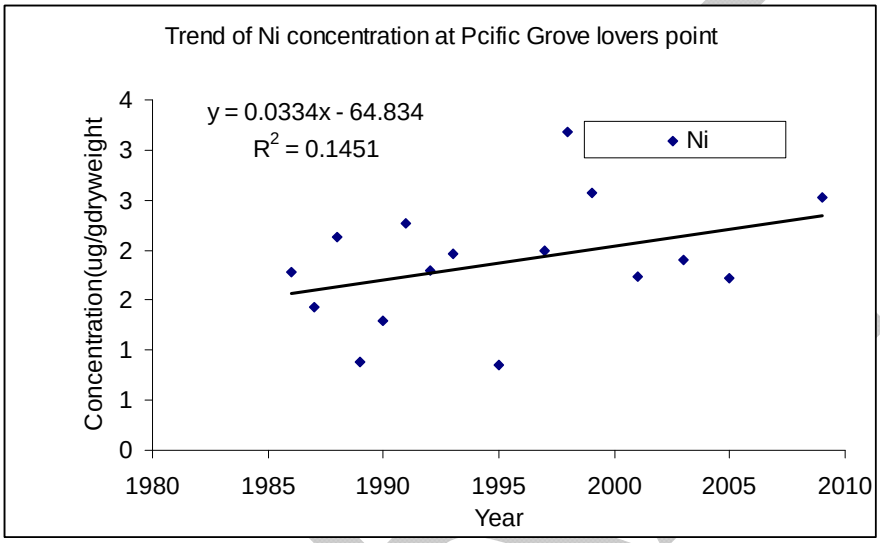


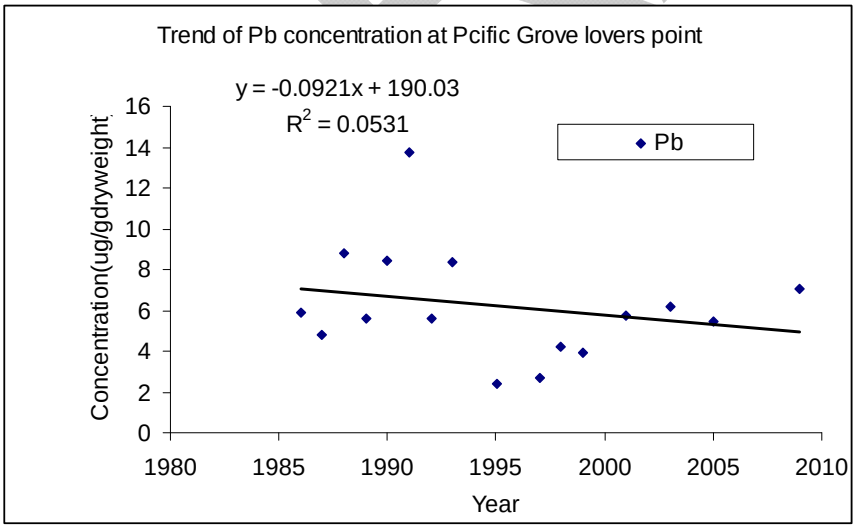

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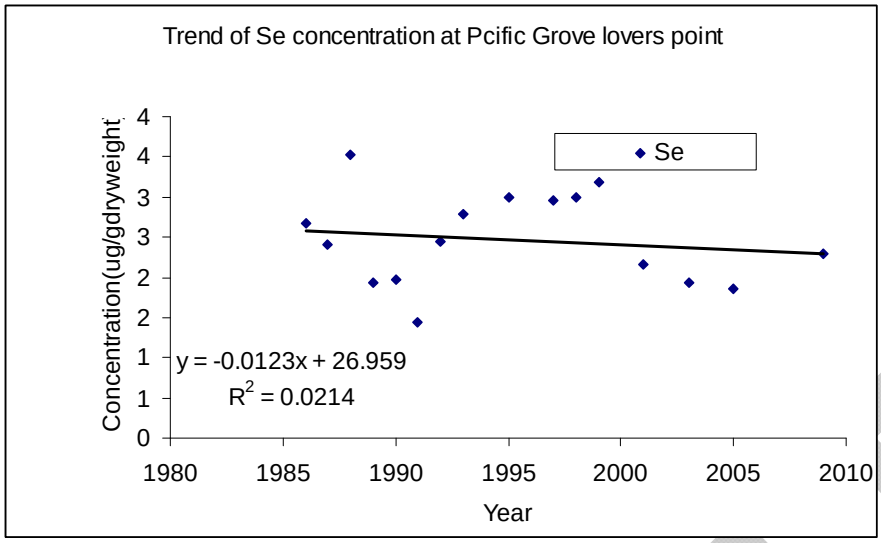


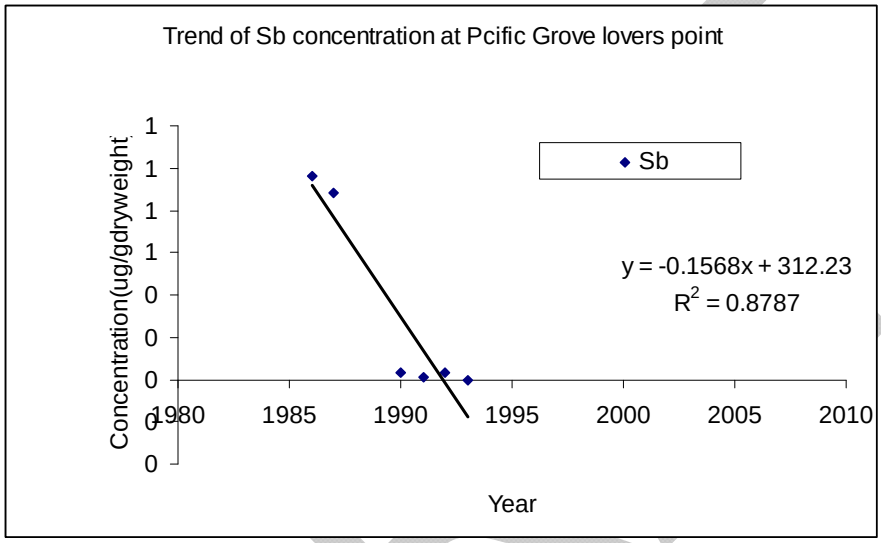


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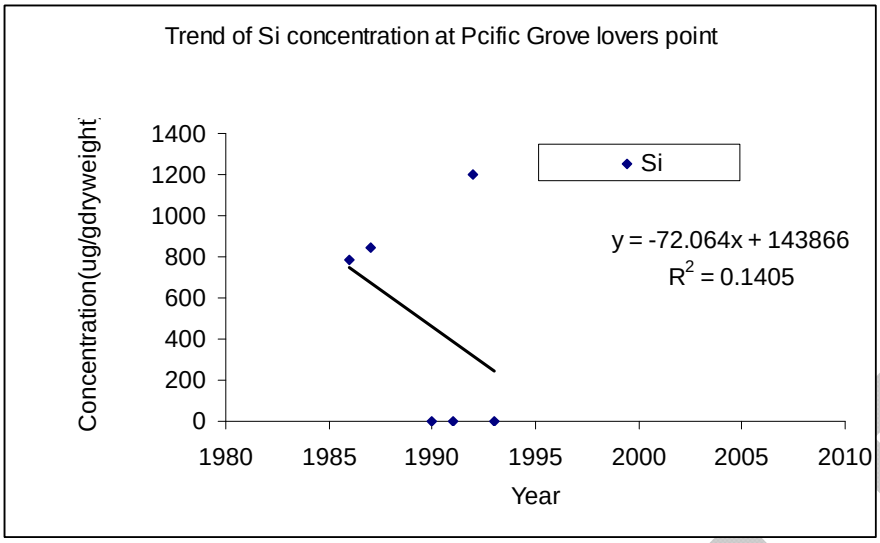


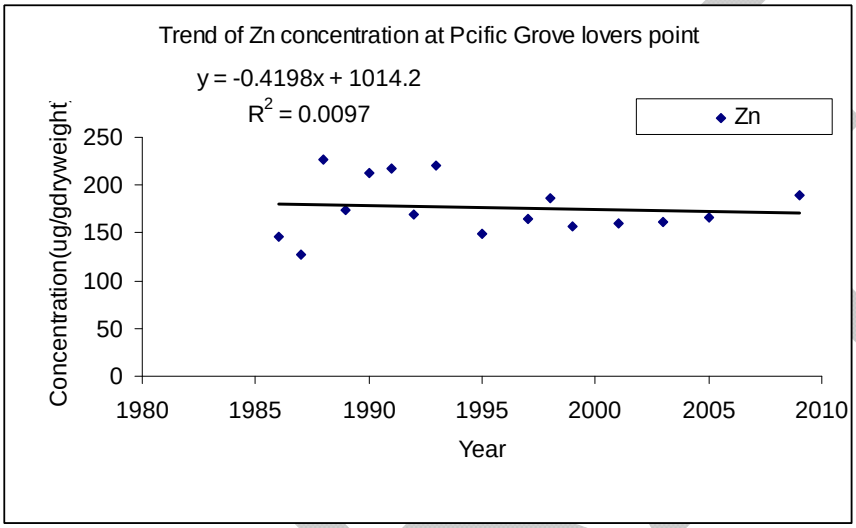


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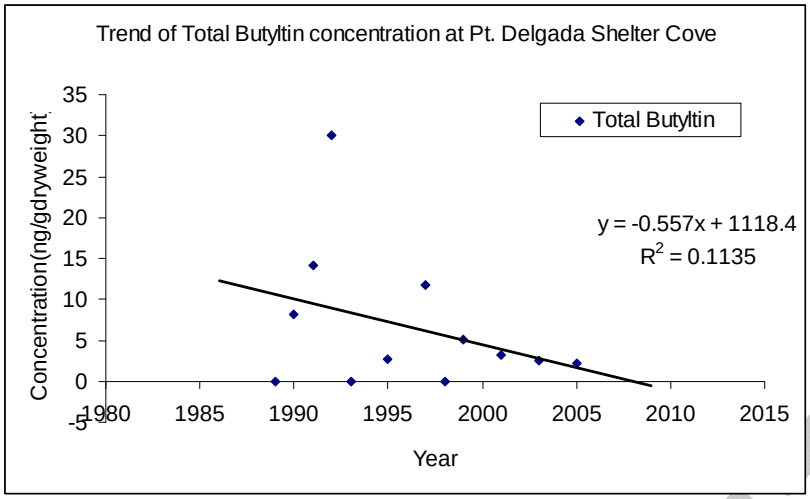
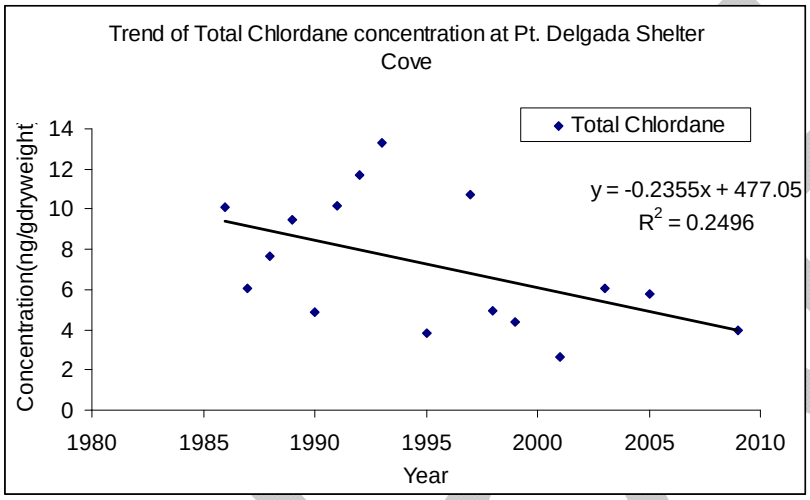
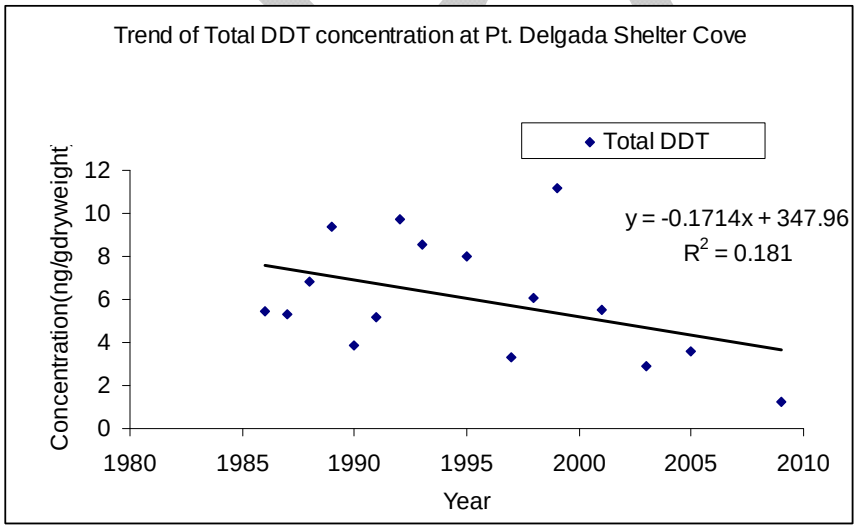
# Appendix 3: Mussel Watch Data

Pt Delgada Shelter Cove



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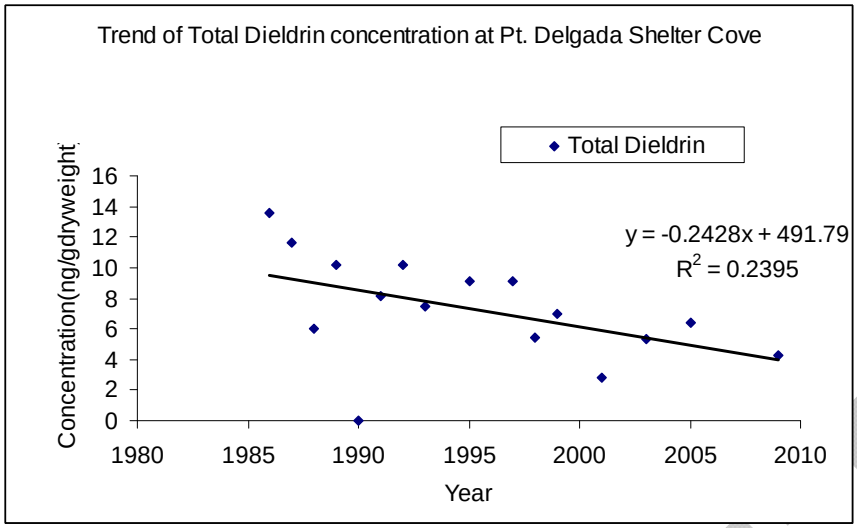


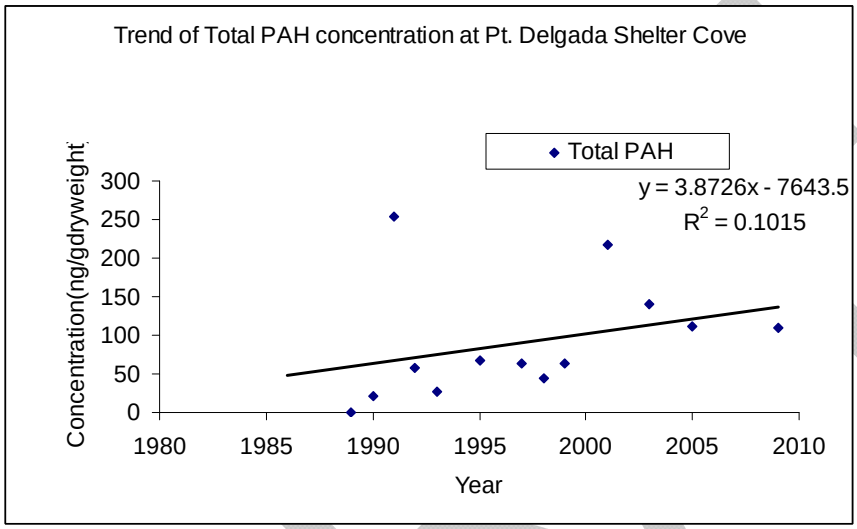


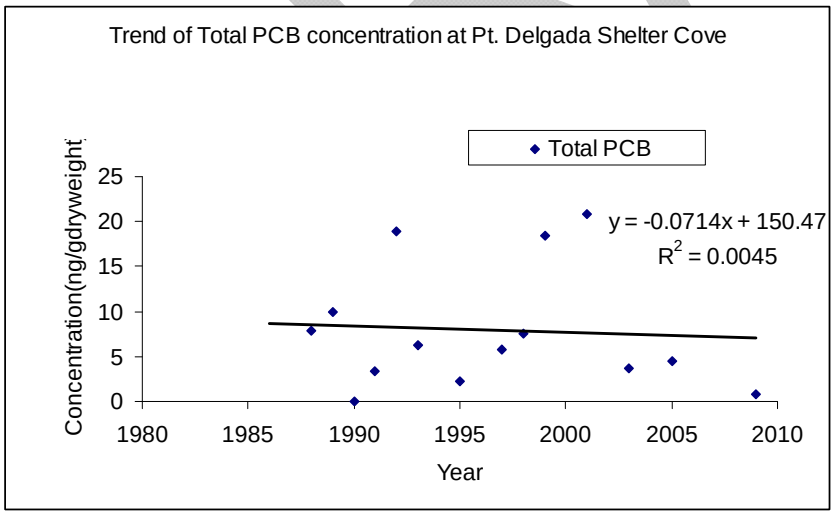

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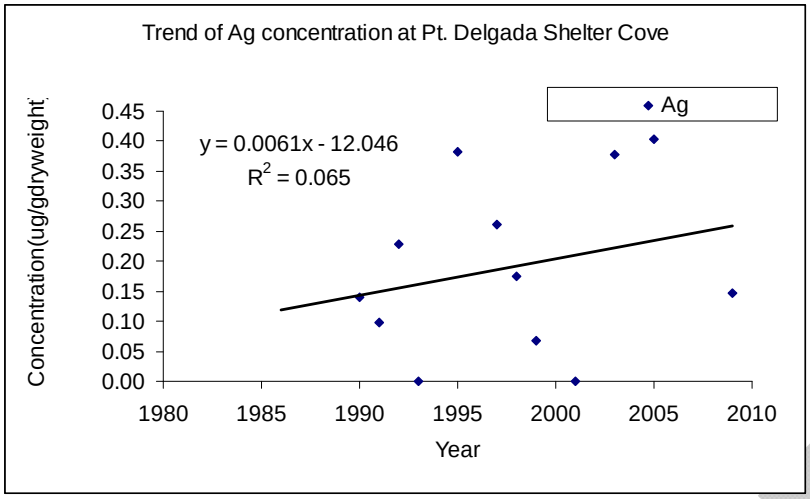


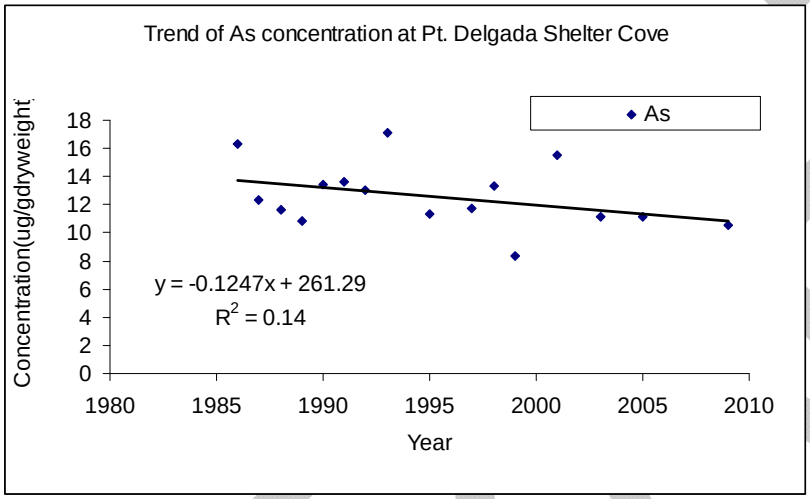


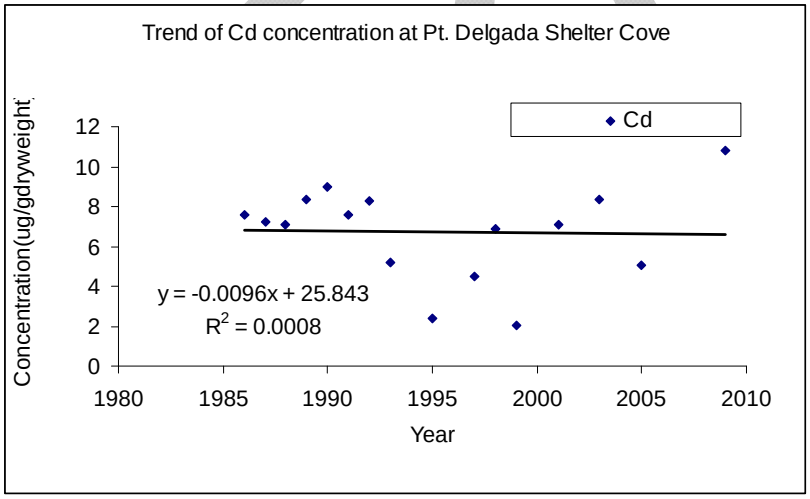

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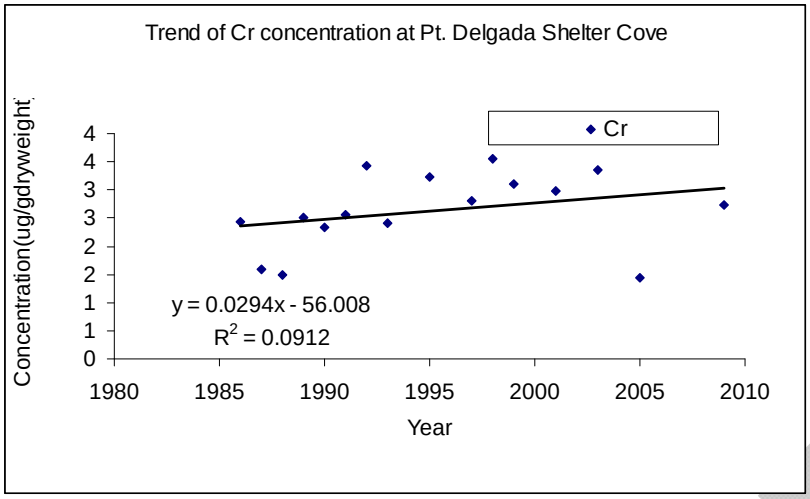


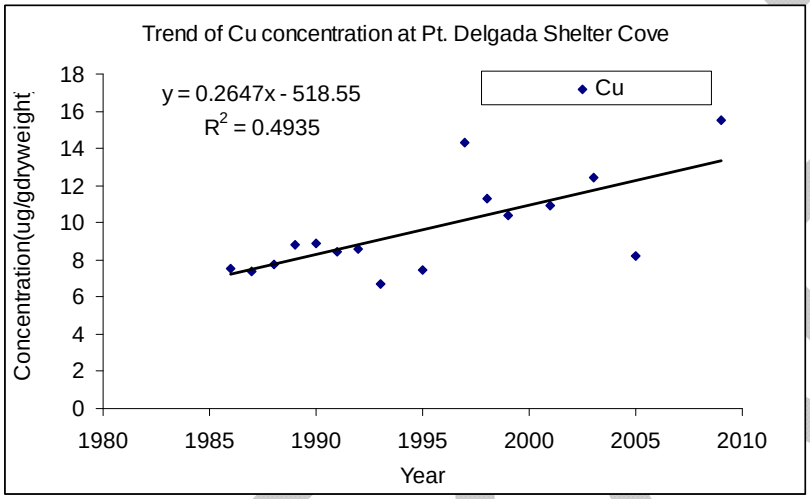


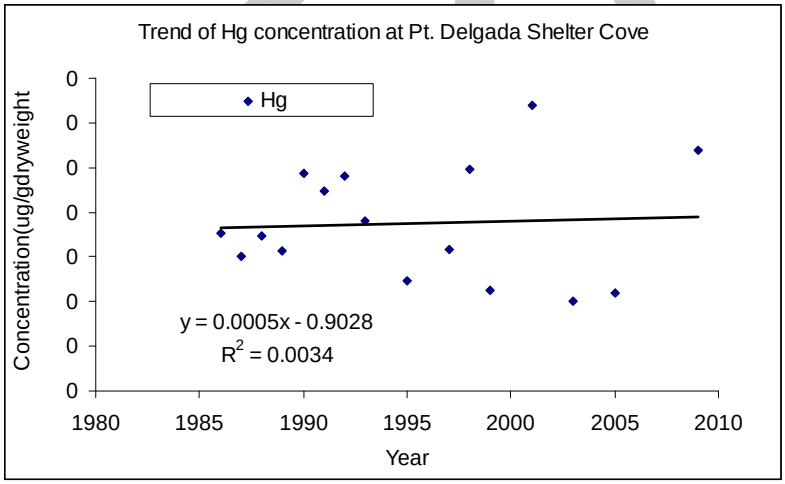

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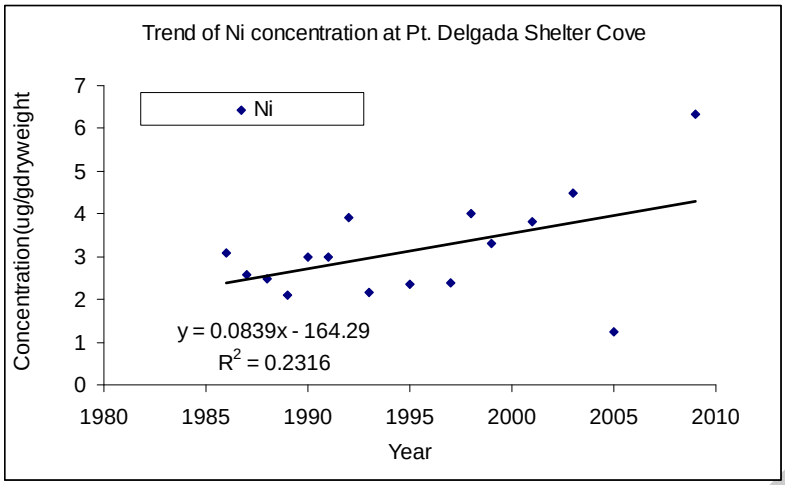


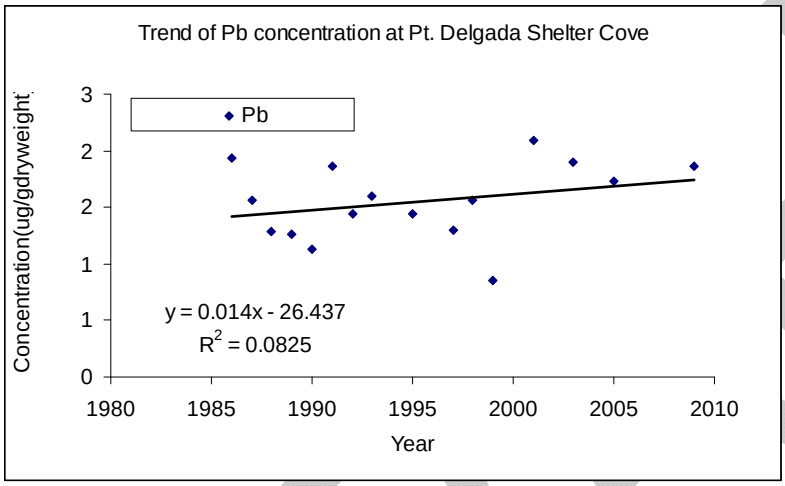


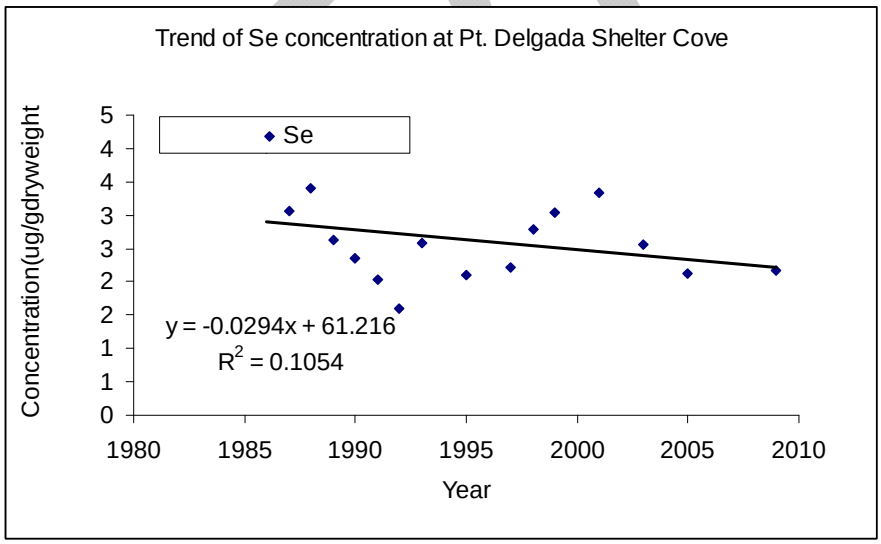

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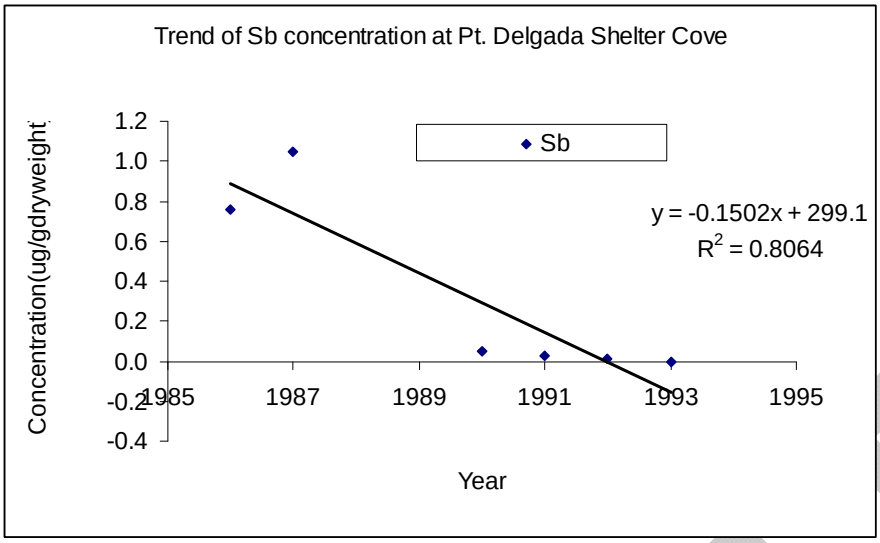


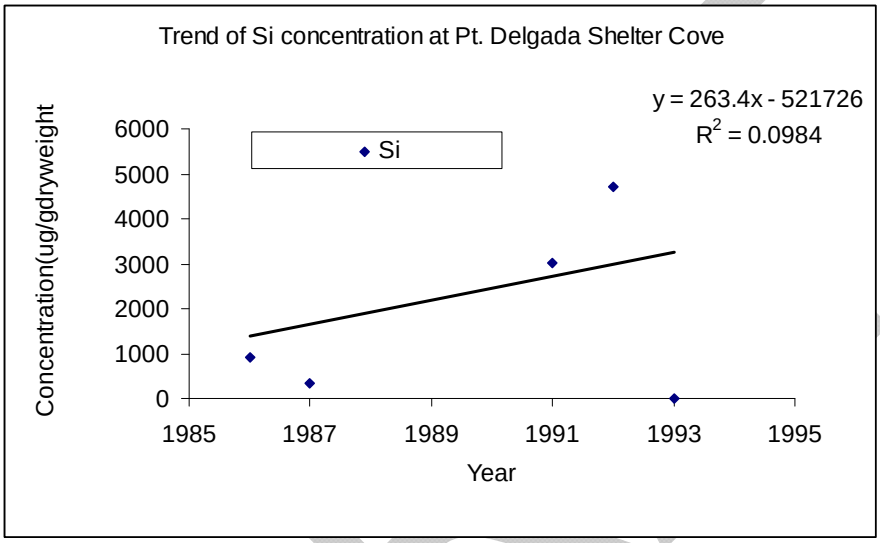


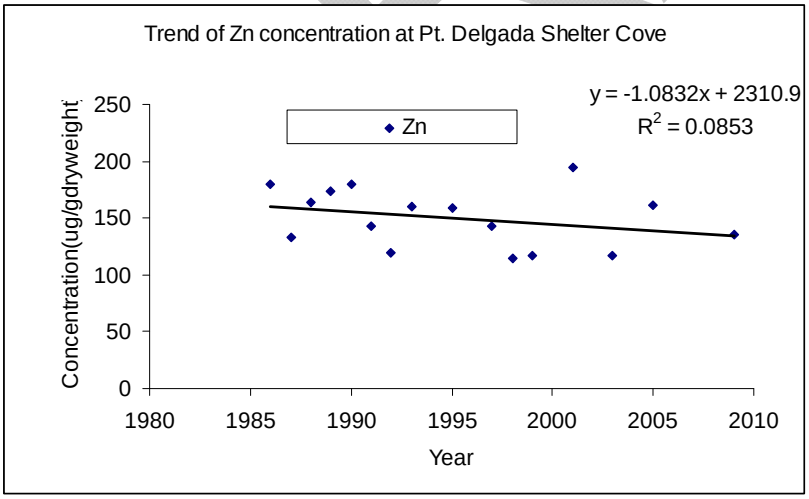

# Appendix 3: Mussel Watch Data

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# Appendix 3: Mussel Watch Data

| | South Catalina Island Bird Rock | | | | La Jolla La Jolla | | | | Newport Beach West Jetty | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Number of sample | $R^2$ | R | Table R | Number of sample | $R^2$ | R | Table R | Number of sample | $R^2$ | R | Table R |
| Total Butlytins | 9 | 0.034 | 0.185 | 0.666 | 11 | 0.038 | 0.195 | 0.602 | 10 | 0.461 | 0.679 | 0.632 |
| T_CDANE | 13 | 0.313 | 0.559 | 0.553 | 15 | 0.302 | 0.550 | 0.514 | 14 | 0.166 | 0.408 | 0.532 |
| T_DDT | 13 | 0.250 | 0.500 | 0.553 | 13 | 0.253 | 0.503 | 0.553 | 14 | 0.271 | 0.521 | 0.532 |
| T_DIELD | 13 | 0.228 | 0.477 | 0.553 | 15 | 0.031 | 0.176 | 0.514 | 14 | 0.061 | 0.246 | 0.532 |
| Total PAH | 10 | 0.032 | 0.179 | 0.632 | 12 | 0.304 | 0.551 | 0.576 | 11 | 0.001 | 0.035 | 0.602 |
| Total PCBs | 11 | 0.038 | 0.195 | 0.602 | 12 | 0.017 | 0.130 | 0.576 | 12 | 0.126 | 0.354 | 0.576 |
| Zn | 13 | 0.205 | 0.453 | 0.553 | 14 | 0.005 | 0.072 | 0.532 | 14 | 0.144 | 0.379 | 0.532 |
| Ag | 10 | 0.017 | 0.130 | 0.632 | 10 | 0.461 | 0.679 | 0.632 | 10 | 0.658 | 0.811 | 0.632 |
| AS | 13 | 0.352 | 0.593 | 0.553 | 15 | 0.337 | 0.580 | 0.514 | 14 | 0.195 | 0.441 | 0.532 |
| CD | 13 | 0.142 | 0.377 | 0.553 | 15 | 0.003 | 0.054 | 0.514 | 14 | 0.165 | 0.406 | 0.532 |
| CR | 13 | 0.001 | 0.026 | 0.553 | 15 | 0.000 | 0.014 | 0.514 | 14 | 0.016 | 0.126 | 0.532 |
| CU | 13 | 0.174 | 0.417 | 0.553 | 15 | 0.138 | 0.371 | 0.514 | 14 | 0.055 | 0.235 | 0.532 |
| HG | 13 | 0.224 | 0.473 | 0.553 | 15 | 0.527 | 0.726 | 0.514 | 14 | 0.420 | 0.648 | 0.532 |
| NI | 13 | 0.031 | 0.177 | 0.553 | 15 | 0.081 | 0.284 | 0.514 | 14 | 0.059 | 0.243 | 0.532 |
| PB | 13 | 0.236 | 0.485 | 0.553 | 15 | 0.390 | 0.624 | 0.514 | 14 | 0.298 | 0.546 | 0.532 |
| SB | 6 | 0.730 | 0.854 | 0.811 | 6 | 0.444 | 0.666 | 0.811 | 6 | 0.790 | 0.889 | 0.532 |
| SE | 13 | 0.225 | 0.474 | 0.553 | 15 | 0.159 | 0.399 | 0.514 | 14 | 0.101 | 0.317 | 0.532 |
| SI | 6 | 0.656 | 0.810 | 0.811 | 6 | 0.033 | 0.182 | 0.811 | 6 | 0.167 | 0.408 | 0.532 |

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# Appendix 3: Mussel Watch Data

| Year | Point Dume Point Dume | | | | Santa Cruz Island Fraser Pt. | | | | Pt. Delgada Shelter Cove | | | | Pacific Grove Lovers Point | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of sample | $R^2$ | R | Table R | Number of sample | $R^2$ | R | Table R | Number of sample | $R^2$ | R | Table R | Number of data | R2 | R | table R(0.05) |
| Total Butlytins | 11 | 0.502 | 0.709 | 0.602 | 9 | 0.000 | 0.020 | 0.666 | 12 | 0.114 | 0.337 | 0.576 | 12 | 0.298 | 0.546 | 0.576 |
| T_CDANE | 15 | 0.455 | 0.675 | 0.514 | 13 | 0.014 | 0.117 | 0.553 | 16 | 0.250 | 0.500 | 0.497 | 16 | 0.225 | 0.474 | 0.497 |
| T_DDT | 15 | 0.330 | 0.574 | 0.514 | 13 | 0.196 | 0.443 | 0.553 | 16 | 0.181 | 0.425 | 0.497 | 16 | 0.145 | 0.381 | 0.497 |
| T_DIELD | 15 | 0.103 | 0.321 | 0.514 | 13 | 0.047 | 0.216 | 0.553 | 16 | 0.240 | 0.489 | 0.497 | 16 | 0.126 | 0.355 | 0.497 |
| Total PAH | 12 | 0.016 | 0.127 | 0.576 | 10 | 0.204 | 0.452 | 0.632 | 13 | 0.102 | 0.319 | 0.553 | 13 | 0.068 | 0.260 | 0.553 |
| Total PCBs | 11 | 0.199 | 0.446 | 0.602 | 11 | 0.038 | 0.195 | 0.602 | 14 | 0.005 | 0.067 | 0.532 | 13 | 0.015 | 0.124 | 0.553 |
| ZN | 14 | 0.470 | 0.686 | 0.532 | 13 | 0.207 | 0.455 | 0.553 | 16 | 0.085 | 0.292 | 0.497 | 16 | 0.010 | 0.098 | 0.497 |
| Ag | 10 | 0.317 | 0.563 | 0.632 | 10 | 0.152 | 0.390 | 0.632 | 12 | 0.065 | 0.255 | 0.576 | 12 | 0.022 | 0.147 | 0.576 |
| AS | 15 | 0.445 | 0.667 | 0.514 | 12 | 0.501 | 0.708 | 0.576 | 16 | 0.140 | 0.374 | 0.497 | 16 | 0.362 | 0.602 | 0.497 |
| CD | 15 | 0.452 | 0.672 | 0.514 | 13 | 0.114 | 0.338 | 0.553 | 16 | 0.001 | 0.028 | 0.497 | 15 | 0.269 | 0.518 | 0.514 |
| CR | 14 | 0.051 | 0.227 | 0.532 | 12 | 0.001 | 0.035 | 0.576 | 16 | 0.091 | 0.302 | 0.497 | 16 | 0.171 | 0.413 | 0.497 |
| CU | 15 | 0.348 | 0.590 | 0.514 | 13 | 0.011 | 0.104 | 0.553 | 16 | 0.494 | 0.702 | 0.497 | 16 | 0.077 | 0.278 | 0.497 |
| HG | 14 | 0.330 | 0.574 | 0.532 | 13 | 0.056 | 0.236 | 0.553 | 16 | 0.003 | 0.058 | 0.497 | 16 | 0.053 | 0.231 | 0.497 |
| NI | 15 | 0.025 | 0.157 | 0.514 | 13 | 0.121 | 0.347 | 0.553 | 16 | 0.232 | 0.481 | 0.497 | 16 | 0.145 | 0.381 | 0.497 |
| PB | 15 | 0.001 | 0.022 | 0.514 | 13 | 0.024 | 0.154 | 0.553 | 16 | 0.083 | 0.287 | 0.497 | 16 | 0.053 | 0.230 | 0.497 |
| SB | 6 | 0.876 | 0.936 | 0.811 | 6 | 0.395 | 0.628 | 0.811 | 6 | 0.806 | 0.898 | 0.811 | 6 | 0.879 | 0.937 | 0.811 |
| SE | 15 | 0.352 | 0.593 | 0.514 | 13 | 0.094 | 0.306 | 0.553 | 16 | 0.105 | 0.325 | 0.497 | 16 | 0.021 | 0.146 | 0.497 |
| SI | 6 | 0.040 | 0.200 | 0.811 | 6 | 0.802 | 0.895 | 0.811 | 6 | 0.098 | 0.314 | 0.811 | 6 | 0.141 | 0.375 | 0.811 |

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# Appendix 3: Mussel Watch Data

## Historical California State Mussel Watch Data Summary, 1977-99

*Trinidad Head*

At the Trinidad ASBS, results for ten constituents (aluminum, chromium, copper, mercury, manganese, nickel, selenium, oxychlordane, cis-chlordane, and chlorpyrifos) at times indicated elevated levels above the EDL 85. Of the 23 analyses, eight results for aluminum, five results for chromium, four results for copper, one result for mercury, 14 results for manganese, and two results for selenium were above the EDL 95 for during the period 1977 to 1999. Of the eight organic chemistry analyses performed, one result for gamma chlordane, six results for oxychlordane, and seven results for chlorpyrifos were above the EDL 95 from 1982 to 1999.

*Point Reyes Headlands*

At the Point Reyes ASBS, only results for two constituents, oxychlordane (one out of one test) and o,p'DDD (one out of five tests) indicated elevated levels above the EDL 95.

*James V. Fitzgerald*

At the James V. Fitzgerald ASBS, results for eight constituents (aluminum, chromium, nickel, oxychlordane, p,p'DDE, PCB 1248, PCB 1254, and total DDT) at times indicated elevated levels above the EDL 85. Of the eight metals analyses, three results for aluminum, one result for chromium, and two results for nickel were above their respective EDL 95 during 1977 to 1999. Of the nine organic chemistry analyses, two results for oxychlordane, three results for chlorpyrifos, one result for PCB 1248, one result for p, p'DDE, and one result for total DDT were above the EDL 95.

*Año Nuevo*

At the Año Nuevo ASBS, eight constituents (mercury, p,p'DDD, p,p'DDE, o,p'DDT, p,p'DDT, total DDT, PCB 1254, and dieldrin) at times indicated elevated levels for the EDL 85. Six out of six results for mercury were above EDL 95 from 1977 to 1982. Out of four organic analyses performed, four results for p,p'DDE, four results for total DDT, and three results for PCB 1254 were above the EDL 95.

*Pacific Grove*

At the Pacific Grove ASBS, 14 constituents (cadmium, copper, mercury, lead, zinc, trans-nonachlor, oxychlordane, chlorpyrifos, dachtal, p, p'DDD, o, p'DDT, endosulfan, alpha heptachlor, and pentachlorophenol) at times indicated elevated levels for the EDL 85. Of the 26 metals analyses, the highest frequency for exceeding the EDL 95 was for lead (nine results) and zinc (nine results).

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# Appendix 3: Mussel Watch Data

*Carmel Bay*

At the Carmel Bay ASBS, results for seven constituents (cadmium, nickel, selenium, dachtal, p,p'DDT, total endosulfan, and heptachlor) at times indicated elevated levels above the EDL 85. Of these, cadmium (16 out of 32 tests) most frequently exceeded the EDL 85.

*Northwest Santa Catalina Island & Southeast Santa Catalina Island*

At Santa Catalina Island (the general location for four ASBS), only four constituents (aluminum, manganese, lead, and zinc) at times indicated elevated levels. Lead was the constituent with consistent elevated levels (ten out of ten tests) exceeded the EDL 85.

*Robert E. Badham*

At the Robert E. Badham ASBS, ten constituents (silver, copper, manganese, mercury, lead, zinc, dachtal, p,p'DDT, PCB 1254, and p,p'DDD) at times indicated elevated levels. Silver (seven out of seven tests), lead (six out of seven tests), PCBs (five out of six tests), and p,p'DDT (six out of seven tests) most frequently exceeded the EDL 85.

*La Jolla*

At the San Diego Scripps and La Jolla ASBS, only four constituents (silver, lead, zinc, and o,p'DDT) at times indicated elevated levels. Silver (six out of eight tests) and lead (five out of eight tests) most frequently exceeded the EDL 85.

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# Appendix 3: Mussel Watch Data

## 2001-2005 State Mussel Watch Data

| Location | Constituent | 2001-2002 | 2002-2003 | 2003-2004 | 2004-2005 |
|---|---|---|---|---|---|
| Trinidad Head | Silver | -8 | 0.015 | ND | ND |
| | Aluminum | 502 | 1044 | 90 | 1250 |
| | Asimuth | 6.3 | 15.49 | 9.14 | 9.31 |
| | Cadmium | 3.64 | 6.15 | 6.28 | 8.4 |
| | Chromium | 4.55 | 5.62 | 6.85 | 6.11 |
| | Copper | 7.09 | 11.62 | 8.22 | 7.36 |
| | Magnesium | 13.2 | 21.69 | 16.47 | 15.38 |
| | Nickel | 3.32 | 3.65 | 5.85 | 4.74 |
| | Lead | 0.75 | 1.11 | 1.11 | 1.59 |
| | Selenium | 2.7 | 3.91 | 3.09 | 2.36 |
| | Zinc | 73 | 99 | 110 | 136 |
| | Mercury | 0.08 | 0.075 | 0.093 | 0.117 |
| | Chlordane | NT | NT | -8 | NT |
| | DDE,p,p' | NT | NT | -8 | NT |
| | CCDAN | NT | 1.24 | 1.04 | NT |
| | TCDAN | NT | 1.03 | -8 | NT |
| | TOTCL | NT | 2.27 | 1.04 | NT |
| | DDDOP | NT | -8 | -8 | NT |
| | DDDPP | NT | -8 | -8 | NT |
| | DIELD | NT | 3.75 | 7.3 | NT |
| | HCHA | NT | 4.48 | 3.62 | NT |
| | HEPOX | NT | 1.2 | 1.09 | NT |
| | PCB54 | NT | -8 | 16 | NT |
| | TPCB | NT | -8 | NT | NT |

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# Appendix 3: Mussel Watch Data

| | | | | | |
|---|---|---|---|---|---|
| Bodega Head | Silver | 0.06 | 0.05 | 0.11 | ND |
| | Aluminum | 239 | 28 | 326 | 475 |
| | Asimuth | 10.77 | 9.61 | 8.87 | 11.06 |
| | Cadmium | 9.3 | 17.3 | 13.97 | 15.12 |
| | Chromium | 2.49 | 1.2 | 5.32 | 2.88 |
| | Copper | 6.14 | 4.75 | 8.08 | 6.48 |
| | Magnesium | 6.93 | 4.48 | 5.66 | 6.49 |
| | Nickel | 3.56 | 1.38 | 4.55 | 1.77 |
| | Lead | 1.33 | 0.44 | 0.91 | 1.55 |
| | Selenium | 4.83 | 3.49 | 3.05 | ND |
| | Zinc | 161 | 66 | 133 | 153 |
| | Mercury | 0.308 | 0.96 | 0.143 | 0.224 |
| | Chlordane | NT | NT | 1.89 | NT |
| | DDE,p,p' | NT | NT | 4.86 | NT |
| | CCDAN | NT | 1.75 | 1.06 | NT |
| | TCDAN | NT | 2.11 | -8 | NT |
| | TOTCL | NT | 3.86 | 1.06 | NT |
| | DDDOP | NT | -8 | -8 | NT |
| | DDDPP | NT | 5.44 | -8 | NT |
| | DIELD | NT | 7.3 | 7.44 | NT |
| | HCHA | NT | 2.2 | 2.33 | NT |
| | HEPOX | NT | 1.3 | 1.06 | NT |
| | PCB54 | NT | -8 | -8 | NT |
| | TPCB | NT | -8 | NT | NT |

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# Appendix 3: Mussel Watch Data

| | | | | | |
|---|---|---|---|---|---|
| J. Fitzgerald | Silver | 0.09 | 0.123 | ND | ND |
| | Aluminum | 407 | 379 | 634 | 538 |
| | Asimuth | 9.95 | 9.1 | 10.11 | 9.43 |
| | Cadmium | 6.31 | 9.18 | 7.01 | 6.62 |
| | Chromium | 3.37 | 2.35 | 2.94 | 3.06 |
| | Copper | 6.6 | 5.96 | 7.61 | 7.24 |
| | Magnesium | 6.33 | 5.21 | 8.03 | 6.25 |
| | Nickel | 2.71 | 2.52 | 3.01 | 1.73 |
| | Lead | 0.98 | 0.93 | 1.16 | 1.02 |
| | Selenium | 3.95 | 5.06 | 4.29 | 2.28 |
| | Zinc | 122 | 105 | 155 | 123 |
| | Mercury | 0.15 | 0.124 | 0.166 | 0.133 |
| | Chlordane | NT | | 1.06 | NT |
| | DDE,p,p' | NT | | 5.68 | NT |
| | CCDAN | NT | 3.04 | 1.12 | NT |
| | TCDAN | NT | 2.99 | -8 | NT |
| | TOTCL | NT | 6.03 | 1.12 | NT |
| | DDDOP | NT | -8 | -8 | NT |
| | DDDPP | NT | 4.43 | -8 | NT |
| | DIELD | NT | 8.39 | 6.37 | NT |
| | HCHA | NT | 1.73 | 1.51 | NT |
| | HEPOX | NT | 1.44 | -8 | NT |
| | PCB54 | NT | 17 | 13 | NT |
| | TPCB | NT | 17 | | NT |

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# Appendix 3: Mussel Watch Data

| | | | | | |
|---|---|---|---|---|---|
| Pacific Grove | Silver | 0.09 | 0.037 | ND | NT |
| | Aluminum | 248 | 311 | 95 | NT |
| | Asimuth | 13.93 | 12.37 | 14.2 | NT |
| | Cadmium | 12.93 | 10.91 | 13.24 | NT |
| | Chromium | 2.05 | 2.2 | 2.44 | NT |
| | Copper | 6.51 | 6.14 | 7.16 | NT |
| | Magnesium | 4.32 | 4.15 | 3.55 | NT |
| | Nickel | 2.87 | 3.18 | 3.16 | NT |
| | Lead | 3.21 | 3.11 | 3.08 | NT |
| | Selenium | 4.03 | 4.58 | 3.64 | NT |
| | Zinc | 207 | 188 | 192 | NT |
| | Mercury | 0.2 | 0.136 | 0.133 | NT |
| | Chlordane | NT | NT | 1.29 | NT |
| | DDE,p,p' | NT | NT | 18.2 | NT |
| | CCDAN | NT | 3.07 | 1.82 | NT |
| | TCDAN | NT | 3.42 | 1.35 | NT |
| | TOTCL | NT | 6.49 | 3.17 | NT |
| | DDDOP | NT | 5.15 | 5.86 | NT |
| | DDDPP | NT | 5.4 | -8 | NT |
| | DIELD | NT | 10.4 | 11.1 | NT |
| | HCHA | NT | 1.69 | -8 | NT |
| | HEPOX | NT | -8 | -8 | NT |
| | PCB54 | NT | 21 | 18 | NT |
| | TPCB | NT | 21 | NT | NT |

Note: NT = Not Tested
Note: ND = Not Detected

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