

**Table I-7 Results of Organic Compound Sediment Parameters (Untransformed) Using Student-Newman-Keuls Test in 1997 Surface Sediments**

| Analyte               | Zone | n  | Significantly Different Zones | Mean  | Minimum | Maximum | Standard Deviation | Coefficient of Variation |
|-----------------------|------|----|-------------------------------|-------|---------|---------|--------------------|--------------------------|
| C2D/C2P               | 0    | 8  | A                             | 0.159 | 0.131   | 0.235   | 0.034              | 21.5                     |
|                       | 2    | 17 | AB                            | 0.151 | 0.111   | 0.164   | 0.012              | 8.3                      |
|                       | 3    | 17 | AB                            | 0.151 | 0.126   | 0.177   | 0.012              | 8.1                      |
|                       | 1    | 17 | B                             | 0.137 | 0.108   | 0.164   | 0.016              | 12.0                     |
| C3D/C3P               | 0    | 8  | A                             | 0.215 | 0.127   | 0.289   | 0.048              | 22.3                     |
|                       | 2    | 17 | AB                            | 0.197 | 0.163   | 0.250   | 0.024              | 12.0                     |
|                       | 3    | 17 | BC                            | 0.189 | 0.173   | 0.225   | 0.013              | 7.1                      |
|                       | 1    | 17 | C                             | 0.171 | 0.143   | 0.200   | 0.018              | 10.7                     |
| CPI                   | 1    | 17 | A                             | 3.308 | 1.356   | 5.425   | 1.333              | 40.3                     |
|                       | 0    | 8  | A                             | 3.209 | 1.859   | 7.000   | 1.618              | 50.4                     |
|                       | 2    | 17 | A                             | 2.626 | 1.618   | 4.579   | 0.698              | 26.6                     |
|                       | 3    | 17 | A                             | 2.304 | 1.136   | 4.811   | 0.854              | 37.0                     |
| Hopane (ug/g)         | 2    | 17 | A                             | 0.003 | 0.001   | 0.013   | 0.003              | 88.5                     |
|                       | 3    | 17 | A                             | 0.002 | 0.001   | 0.004   | 0.001              | 34.7                     |
|                       | 1    | 17 | A                             | 0.002 | 0.001   | 0.004   | 0.001              | 37.4                     |
|                       | 0    | 8  | A                             | 0.002 | 0.001   | 0.004   | 0.001              | 56.3                     |
| Isoprenoids (ug/g)    | 3    | 17 | A                             | 0.127 | 0.063   | 0.207   | 0.039              | 31.0                     |
|                       | 1    | 17 | A                             | 0.111 | 0.056   | 0.209   | 0.046              | 41.1                     |
|                       | 2    | 17 | A                             | 0.110 | 0.048   | 0.158   | 0.032              | 28.9                     |
|                       | 0    | 8  | B                             | 0.044 | 0.019   | 0.072   | 0.019              | 43.0                     |
| LALK (ug/g)           | 1    | 17 | A                             | 0.460 | 0.194   | 0.711   | 0.189              | 41.1                     |
|                       | 3    | 17 | A                             | 0.403 | 0.272   | 0.603   | 0.094              | 23.2                     |
|                       | 2    | 17 | A                             | 0.345 | 0.151   | 0.518   | 0.106              | 30.8                     |
|                       | 0    | 8  | B                             | 0.161 | 0.066   | 0.288   | 0.077              | 48.0                     |
| N/P                   | 2    | 17 | A                             | 0.980 | 0.652   | 1.568   | 0.346              | 35.3                     |
|                       | 3    | 17 | A                             | 0.972 | 0.743   | 1.492   | 0.197              | 20.2                     |
|                       | 1    | 17 | A                             | 0.972 | 0.713   | 1.144   | 0.132              | 13.6                     |
|                       | 0    | 8  | B                             | 0.643 | 0.523   | 0.792   | 0.098              | 15.2                     |
| Oleanane/Hopane       | 0    | 8  | A                             | 0.184 | 0.111   | 0.250   | 0.043              | 23.1                     |
|                       | 2    | 17 | A                             | 0.169 | 0.093   | 0.231   | 0.039              | 22.8                     |
|                       | 1    | 17 | A                             | 0.167 | 0.084   | 0.278   | 0.063              | 37.7                     |
|                       | 3    | 17 | A                             | 0.160 | 0.103   | 0.246   | 0.033              | 20.7                     |
| Perylene (ug/g)       | 0    | 8  | A                             | 0.017 | 0.003   | 0.040   | 0.015              | 86.7                     |
|                       | 3    | 17 | AB                            | 0.013 | 0.006   | 0.022   | 0.005              | 38.8                     |
|                       | 2    | 17 | BC                            | 0.009 | 0.005   | 0.016   | 0.003              | 32.0                     |
|                       | 1    | 17 | C                             | 0.006 | 0.004   | 0.010   | 0.002              | 25.9                     |
| Petrogenic PAH (ug/g) | 3    | 17 | A                             | 0.364 | 0.241   | 0.475   | 0.069              | 19.0                     |
|                       | 2    | 17 | A                             | 0.343 | 0.141   | 0.533   | 0.110              | 32.0                     |
|                       | 1    | 17 | A                             | 0.289 | 0.117   | 0.573   | 0.151              | 52.4                     |
|                       | 0    | 8  | B                             | 0.143 | 0.069   | 0.247   | 0.063              | 44.4                     |
| Phytane/pristane      | 0    | 8  | A                             | 0.170 | 0.097   | 0.262   | 0.053              | 31.3                     |
|                       | 1    | 17 | B                             | 0.110 | 0.052   | 0.205   | 0.045              | 41.0                     |
|                       | 2    | 17 | B                             | 0.101 | 0.073   | 0.136   | 0.017              | 16.5                     |
|                       | 3    | 17 | B                             | 0.097 | 0.052   | 0.229   | 0.042              | 42.7                     |
| Pristane (ug/g)       | 3    | 17 | A                             | 0.078 | 0.036   | 0.140   | 0.029              | 37.6                     |
|                       | 2    | 17 | A                             | 0.066 | 0.030   | 0.100   | 0.021              | 32.2                     |
|                       | 1    | 17 | A                             | 0.062 | 0.020   | 0.143   | 0.033              | 53.5                     |

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| Analyte               | Zone | n  | Significantly Different Zones | Mean   | Minimum | Maximum | Standard Deviation | Coefficient of Variation |
|-----------------------|------|----|-------------------------------|--------|---------|---------|--------------------|--------------------------|
|                       | 0    | 8  | B                             | 0.024  | 0.010   | 0.041   | 0.012              | 49.4                     |
| Pyrogenic PAH (ug/g)  | 3    | 17 | A                             | 0.039  | 0.021   | 0.058   | 0.012              | 30.2                     |
|                       | 0    | 8  | A                             | 0.036  | 0.011   | 0.082   | 0.030              | 82.1                     |
|                       | 2    | 17 | A                             | 0.033  | 0.019   | 0.057   | 0.011              | 33.5                     |
|                       | 1    | 17 | A                             | 0.026  | 0.014   | 0.051   | 0.011              | 40.9                     |
| Pyrogenic/Petrogenic  | 0    | 8  | A                             | 0.234  | 0.087   | 0.471   | 0.123              | 52.4                     |
|                       | 3    | 17 | B                             | 0.106  | 0.084   | 0.139   | 0.016              | 15.0                     |
|                       | 2    | 17 | B                             | 0.097  | 0.071   | 0.134   | 0.014              | 14.2                     |
|                       | 1    | 17 | B                             | 0.096  | 0.076   | 0.124   | 0.016              | 16.3                     |
| T21/T22               | 3    | 17 | A                             | 0.452  | 0.400   | 0.559   | 0.035              | 7.7                      |
|                       | 2    | 17 | A                             | 0.437  | 0.250   | 0.757   | 0.127              | 29.1                     |
|                       | 1    | 17 | A                             | 0.333  | 0.146   | 0.758   | 0.189              | 56.7                     |
|                       | 0    | 8  | B                             | 0.160  | 0.057   | 0.422   | 0.115              | 71.9                     |
| TALK (ug/g)           | 1    | 17 | A                             | 1.514  | 0.526   | 5.929   | 1.197              | 79.1                     |
|                       | 2    | 17 | A                             | 1.456  | 0.696   | 7.248   | 1.509              | 103.6                    |
|                       | 3    | 17 | A                             | 1.129  | 0.584   | 1.707   | 0.334              | 29.6                     |
|                       | 0    | 8  | A                             | 0.980  | 0.427   | 2.045   | 0.534              | 54.5                     |
| Total PHC (ug/g)      | 3    | 17 | A                             | 23.620 | 12.000  | 44.000  | 8.773              | 37.1                     |
|                       | 1    | 17 | A                             | 21.188 | 9.100   | 41.000  | 8.937              | 42.2                     |
|                       | 2    | 17 | A                             | 18.994 | 10.000  | 35.000  | 6.610              | 34.8                     |
|                       | 0    | 8  | A                             | 17.367 | 6.500   | 32.667  | 11.267             | 64.9                     |
| Total PAH (ug/g)      | 3    | 17 | A                             | 0.403  | 0.262   | 0.531   | 0.080              | 19.9                     |
|                       | 2    | 17 | A                             | 0.376  | 0.160   | 0.583   | 0.120              | 32.0                     |
|                       | 1    | 17 | A                             | 0.315  | 0.132   | 0.624   | 0.162              | 51.4                     |
|                       | 0    | 8  | B                             | 0.179  | 0.080   | 0.329   | 0.087              | 48.8                     |
| Total S/T (ug/g)      | 0    | 8  | A                             | 0.020  | 0.006   | 0.057   | 0.017              | 81.7                     |
|                       | 2    | 17 | A                             | 0.016  | 0.007   | 0.055   | 0.011              | 68.3                     |
|                       | 3    | 17 | A                             | 0.013  | 0.007   | 0.019   | 0.004              | 32.6                     |
|                       | 1    | 17 | A                             | 0.012  | 0.007   | 0.019   | 0.003              | 26.7                     |
| Ts/(Ts+Tm)            | 1    | 17 | A                             | 0.336  | 0.229   | 0.393   | 0.052              | 15.5                     |
|                       | 2    | 17 | AB                            | 0.313  | 0.228   | 0.393   | 0.044              | 14.2                     |
|                       | 0    | 8  | B                             | 0.279  | 0.180   | 0.499   | 0.102              | 36.6                     |
|                       | 3    | 17 | B                             | 0.274  | 0.244   | 0.330   | 0.028              | 10.1                     |
| nC15+nC17 (ug/g)      | 3    | 17 | A                             | 0.058  | 0.033   | 0.076   | 0.014              | 23.3                     |
|                       | 2    | 17 | A                             | 0.056  | 0.030   | 0.094   | 0.017              | 30.7                     |
|                       | 1    | 17 | A                             | 0.048  | 0.025   | 0.085   | 0.020              | 40.5                     |
|                       | 0    | 8  | B                             | 0.032  | 0.013   | 0.069   | 0.020              | 63.6                     |
| nC16/(nC15+nC17)      | 1    | 17 | A                             | 0.162  | 0.087   | 0.233   | 0.033              | 20.6                     |
|                       | 3    | 17 | A                             | 0.155  | 0.128   | 0.176   | 0.013              | 8.5                      |
|                       | 2    | 17 | A                             | 0.153  | 0.114   | 0.194   | 0.025              | 16.6                     |
|                       | 0    | 8  | B                             | 0.092  | 0.027   | 0.146   | 0.043              | 46.5                     |
| nC27+nC29+nC31 (ug/g) | 0    | 8  | A                             | 0.350  | 0.116   | 0.845   | 0.240              | 68.5                     |
|                       | 2    | 17 | A                             | 0.302  | 0.171   | 0.490   | 0.073              | 24.2                     |
|                       | 3    | 17 | A                             | 0.253  | 0.080   | 0.385   | 0.100              | 39.4                     |
|                       | 1    | 17 | A                             | 0.247  | 0.037   | 0.400   | 0.100              | 40.5                     |