**Table I-1 Complete List of Target Organic Compounds for Sediments**

| Analyte Number | Analyte | General Class | Analyte Number | Analyte | General Class |
|---|---|---|---|---|---|
| 3 | Naphthalene | PAH | 50 | n-Tetradecane | SHC |
| 4 | C1-Naphthalenes | PAH | 51 | Isoprenoid RRT 1470 | SHC |
| 5 | C2-Naphthalenes | PAH | 52 | n-Pentadecane | SHC |
| 6 | C3-Naphthalenes | PAH | 53 | Isoprenoid RRT 1650 | SHC |
| 7 | C4-Naphthalenes | PAH | 54 | n-Hexadecane | SHC |
| 8 | Acenaphthylene | PAH | 55 | n-Heptadecane | SHC |
| 9 | Acenaphthene | PAH | 56 | Pristane | SHC |
| 10 | Biphenyl | PAH | 57 | n-Octadecane | SHC |
| 11 | Fluorene | PAH | 58 | Phytane | SHC |
| 12 | C1-Fluorenes | PAH | 59 | n-Nonadecane | SHC |
| 13 | C2-Fluorenes | PAH | 60 | n-Eicosane | SHC |
| 14 | C3-Fluorenes | PAH | 61 | n-Heneicosane | SHC |
| 15 | Anthracene | PAH | 62 | n-Docosane | SHC |
| 16 | Phenanthrene | PAH | 63 | n-Tricosane | SHC |
| 17 | C1-Phenanthrenes/anthracenes | PAH | 64 | n-Tetracosane | SHC |
| 18 | C2-Phenanthrenes/anthracenes | PAH | 65 | n-Pentacosane | SHC |
| 19 | C3-Phenanthrenes/anthracenes | PAH | 66 | n-Hexacosane | SHC |
| 20 | C4-Phenanthrenes/anthracenes | PAH | 67 | n-Heptacosane | SHC |
| 21 | Dibenzothiophene | PAH | 68 | n-Octacosane | SHC |
| 22 | C1-Dibenzothiophenes | PAH | 69 | n-Nonacosane | SHC |
| 23 | C2-Dibenzothiophenes | PAH | 70 | n-Triacontane | SHC |
| 24 | C3-Dibenzothiophenes | PAH | 71 | n-Hentriacontane | SHC |
| 25 | Fluoranthene | PAH | 72 | n-Dotriacontane | SHC |
| 26 | Pyrene | PAH | 73 | n-Tritriacontane | SHC |
| 27 | C1-Fluoranthenes/pyrenes | PAH | 74 | n-Tetratriacontane | SHC |
| 28 | C2-Fluoranthenes/pyrenes | PAH | 75 | n-Pentatriacontane | SHC |
| 29 | C3-Fluoranthenes/pyrenes | PAH | 76 | n-Hexatriacontane | SHC |
| 30 | Benzo[a]anthracene | PAH | 77 | n-Heptatriacontane | SHC |
| 31 | Chrysene | PAH | 78 | n-Octatriacontane | SHC |
| 32 | C1-Chrysenes | PAH | 79 | n-Nonatriacontane | SHC |
| 33 | C2-Chrysenes | PAH | 80 | n-Tetracontane | SHC |
| 34 | C3-Chrysenes | PAH | 81 | Total resolved hydrocarbons | SHC |
| 35 | C4-Chrysenes | PAH | 82 | Total petroleum hydrocarbons | SHC |
| 36 | Benzo[b]fluoranthene | PAH | 83 | T4-C23Diterpane | ST |
| 37 | Benzo[k]fluoranthene | PAH | 84 | S4-Diacholestane | ST |
| 38 | Benzo[e]pyrene | PAH | 85 | S5-Diacholestane | ST |
| 39 | Benzo[a]pyrene | PAH | 86 | T9-C29Tricyclictriterpane | ST |
| 40 | Perylene | PAH | 87 | T10-C29Tricyclictriterpane | ST |
| 41 | Indeno[1,2,3,-c,d]pyrene | PAH | 88 | T11-Trisnorhopane(TS) | ST |
| 42 | Dibenzo[a,h]anthracene | PAH | 89 | T12-Trisnorhopane(TM) | ST |
| 43 | Benzo[g,h,i]perylene | PAH | 90 | S24-Methylcholestane | ST |
| 44 | n-Nonane | SHC | 91 | S25-Ethylcholestane | ST |
| 45 | n-Decane | SHC | 92 | S28-Ethylcholestane | ST |
| 46 | n-Undecane | SHC | 93 | T15-Norhopane | ST |
| 47 | n-Dodecane | SHC | 94 | T18-Oleanane | ST |
| 48 | n-Tridecane | SHC | 95 | T19-Hopane | ST |
| 49 | Isoprenoid RRT 1380 | SHC | 96 | T21-Homohopane | ST |
| | | | 97 | T22-Homohopane | ST |

**Table I-2 Composite Organic Compound Parameters Evaluated for Sediments**

| Composite Analyte Number | Composite Organic Compounds Examined (number in parenthesis correspond to analytes listed in Table I-1) |
|---|---|
| **PAH Parameters** | |
| 100 | Total PAH (sum of all PAH analytes 3 - 43) |
| 101 | Perylene (biogenic PAH analyte 40) |
| 102 | Petrogenic PAH (sum of analytes 3 - 24) + (sum of 27 - 29)+(sum of 32 - 35) |
| 103 | Pyrogenic PAH (all PAH analytes not included in petrogenic PAH) |
| 104 | C2D/C2P (23/18) |
| 105 | C3D/C3P (24/19) |
| 106 | N/P (sum 3 - 7/sum 16 - 20) |
| **SHC parameters** | |
| 109 | TPHC (82) |
| 110 | Pristane (56) |
| 111 | nC15+nC17 (52+55) |
| 112 | nC27+nC29+nC31 (analytes 67+69+71) |
| 113 | TALK (sum all alkanes 44 - 80) |
| 114 | Isoprenoids (49+51+53+56+58) |
| 115 | LALK (sum 44 - 60) |
| 116 | Phytane/pristane (58/56) |
| **Sterane/Triterpane Parameters** | |
| 120 | Total S/T (sum 83 - 97) |
| 121 | Hopane (95) |
| 122 | Ts/Ts+Tm (88/88+89) |
| 123 | Oleanane/Hopane (94/95) |
| 124 | T22/T21 (96/97) |

**Table I-3 Coefficients of Variation Within Stations and Zones for Surface Sediments**

| Analyte | Coefficient of Variation | | | | | |
|---|---|---|---|---|---|---|
| | Stations with Seven Replicates | Zone 0 | Zone 1 | Zone 2 | Zone 3 | All Stations |
| Sediment Metals (µg/g) | | | | | | |
| Antimony | 0.82 | 39.39 | 13.52 | 8.52 | 2.86 | 22.84 |
| Arsenic | 5.13 | 42.07 | 20.75 | 21.76 | 18.27 | 28.69 |
| Barium | 1.13 | 16.44 | 5.73 | 4.31 | 2.18 | 9.73 |
| Beryllium | 1.00 | 13.3 | 8.98 | 9.34 | 2.78 | 13.11 |
| Cadmium | 2.83 | 17.17 | 17.5 | 16.6 | 14.13 | 27.17 |
| Chromium | 1.24 | 24.68 | 9.54 | 7.2 | 4.86 | 14.62 |
| Copper | 1.52 | 30.32 | 17.55 | 9.48 | 4.27 | 19.1 |
| Lead | 0.90 | 19.98 | 8.38 | 5.61 | 2.51 | 13.49 |
| Manganese | 3.03 | 15.49 | 13.51 | 31.11 | 19.49 | 22.93 |
| Mercury | 2.20 | 57.87 | 19.42 | 12.87 | 7.44 | 33.28 |
| Nickel | 0.86 | 23.2 | 13.83 | 11.54 | 2.83 | 15.92 |
| Selenium | 6.68 | 49.49 | 39.32 | 21.33 | 15.86 | 35.86 |
| Silver | 3.25 | 43.29 | 14.66 | 27.32 | 8.46 | 26.75 |
| Thallium | 1.10 | 11.85 | 6.57 | 6.48 | 4.3 | 9.5 |
| Tin | 0.99 | 20.2 | 10.07 | 5.42 | 4.07 | 12.84 |
| Vanadium | 1.17 | 19.94 | 7.61 | 8.42 | 5.2 | 12.68 |
| Zinc | 1.02 | 20.22 | 10.23 | 6.39 | 2.05 | 14.66 |
| Sediment Physical Parameters (percent measurements) | | | | | | |
| Aluminum | 0.31 | 8.52 | 4.32 | 4.24 | 6.93 | 6.32 |
| Calcium | 0.89 | 34.09 | 6.57 | 10.21 | 7.65 | 26.64 |
| Clay | 4.62 | 56.07 | 80.53 | 44.5 | 32.94 | 60.45 |
| Iron | 0.22 | 15.31 | 6.29 | 5.89 | 1.88 | 10.09 |
| Magnesium | 0.46 | 11.55 | 9.7 | 5.31 | 4.95 | 12.41 |
| Potassium | 0.55 | 10.15 | 11.11 | 6.43 | 7.46 | 9.57 |
| Sand | 2.46 | 64.75 | 56.69 | 107.05 | 175.68 | 114.67 |
| Silt | 0.63 | 44.65 | 30.98 | 8.21 | 3.95 | 30.17 |
| Total Organic Carbon | 0.74 | 52.01 | 28.8 | 15.19 | 8.33 | 32.26 |
| Sediment Organic Compounds (µg/g) | | | | | | |
| C2D/C2P | 2.44 | 31.05 | 10.62 | 12.49 | 8.91 | 17.46 |
| C3D/C3P | 1.42 | 39.15 | 9.92 | 17.16 | 9.01 | 23.02 |
| CPI | 4.49 | 58.23 | 35.61 | 24.24 | 32.67 | 44.13 |
| Hopane | 7.47 | 51.63 | 37.64 | 77.57 | 39.59 | 66.19 |
| Isoprenoids | 4.56 | 43.67 | 48.42 | 32.77 | 37.05 | 51.19 |
| LALK | 5.14 | 45.83 | 40.23 | 30.45 | 28.62 | 45.16 |
| N/P | 1.57 | 18.1 | 11.09 | 34.17 | 18.15 | 26.74 |
| Oleanane/Hopane | 4.98 | 26.59 | 35.85 | 22.33 | 20.23 | 26.85 |
| Perylene | 4.11 | 101.54 | 27.59 | 39.84 | 49 | 96.71 |
| Petrogenic PAH | 2.36 | 42.55 | 53.87 | 43.16 | 22.86 | 51.99 |
| Phytane/pristane | 7.82 | 37.06 | 38.14 | 22.51 | 40.31 | 44.95 |
| Pristane | 6.82 | 50.55 | 66.83 | 37.42 | 43.48 | 61.1 |
| Pyrogenic PAH | 2.85 | 94.75 | 39.8 | 41.57 | 37.78 | 63.68 |
| Pyrogenic/Petrogenic | 2.37 | 69.55 | 20.01 | 15.29 | 19.57 | 75.72 |
| T22/T21 | 3.50 | 72.08 | 59.05 | 26.02 | 8.97 | 49.19 |
| TALK | 2.44 | 52.08 | 82.38 | 100.83 | 36.56 | 76.81 |
| TPHC | 5.74 | 64.68 | 34.38 | 37.88 | 42.76 | 46.19 |
| Total PAH | 2.33 | 48.03 | 52.63 | 42.85 | 23.85 | 50.02 |
| Total S/T | 8.07 | 68.41 | 24.5 | 60.9 | 37 | 60.09 |
| Ts/(Ts+Tm) | 4.38 | 57.63 | 13.82 | 15.27 | 11.89 | 29.55 |
| nC15+nC17 | 2.91 | 65.1 | 40.5 | 33.76 | 29.26 | 44.13 |
| nC16/(nC15+nC17) | 2.31 | 57.17 | 17.05 | 17.66 | 10.54 | 30.8 |
| nC27+nC29+nC31 | 4.33 | 65.17 | 35.53 | 24.86 | 50.99 | 54.3 |

**Table I-4 Between Zone Comparisons of Surface Sediments Metals (Untransformed) Using Student-Newman-Kuels Test**

| Analyte | Zone | n | Significantly Different Zones | Mean (µg/g) | Minimum (µg/g) | Maximum (µg/g) | Standard Deviation (µg/g) | Coefficient of Variation (%) |
|---|---|---|---|---|---|---|---|---|
| Antimony | 0 | 8 | B | 0.22 | 0.13 | 0.33 | 0.06 | 26.49 |
| Antimony | 1 | 17 | B | 0.22 | 0.18 | 0.25 | 0.02 | 10.52 |
| Antimony | 2 | 17 | B | 0.23 | 0.21 | 0.25 | 0.01 | 4.68 |
| Antimony | 3 | 17 | A | 0.26 | 0.23 | 0.27 | 0.01 | 3.94 |
| Arsenic | 0 | 8 | A | 2.44 | 1.03 | 3.30 | 0.78 | 32.10 |
| Arsenic | 1 | 17 | B | 2.04 | 1.42 | 2.81 | 0.42 | 20.77 |
| Arsenic | 2 | 17 | AB | 2.22 | 1.70 | 3.00 | 0.31 | 13.78 |
| Arsenic | 3 | 17 | B | 2.00 | 1.55 | 2.72 | 0.29 | 14.54 |
| Barium | 0 | 8 | B | 192.79 | 137.90 | 229.69 | 34.06 | 17.67 |
| Barium | 1 | 17 | B | 209.18 | 184.77 | 221.45 | 10.86 | 5.19 |
| Barium | 2 | 17 | AB | 200.35 | 183.56 | 214.29 | 10.36 | 5.17 |
| Barium | 3 | 17 | A | 194.87 | 176.87 | 201.89 | 6.25 | 3.21 |
| Beryllium | 0 | 8 | B | 0.29 | 0.24 | 0.34 | 0.04 | 14.60 |
| Beryllium | 1 | 17 | AB | 0.30 | 0.26 | 0.33 | 0.02 | 8.22 |
| Beryllium | 2 | 17 | C | 0.27 | 0.23 | 0.30 | 0.02 | 7.24 |
| Beryllium | 3 | 17 | A | 0.31 | 0.30 | 0.34 | 0.01 | 3.20 |
| Cadmium | 0 | 8 | C | 0.02 | 0.02 | 0.03 | 0.00 | 18.22 |
| Cadmium | 1 | 17 | BC | 0.03 | 0.02 | 0.03 | 0.00 | 13.90 |
| Cadmium | 2 | 17 | B | 0.03 | 0.02 | 0.05 | 0.01 | 18.67 |
| Cadmium | 3 | 17 | A | 0.04 | 0.03 | 0.05 | 0.01 | 16.01 |
| Chromium | 0 | 8 | AB | 16.52 | 12.92 | 19.71 | 2.04 | 12.35 |
| Chromium | 1 | 17 | B | 16.00 | 14.01 | 17.82 | 1.18 | 7.38 |
| Chromium | 2 | 17 | AB | 17.18 | 15.38 | 18.28 | 0.72 | 4.17 |
| Chromium | 3 | 17 | A | 16.69 | 15.12 | 18.05 | 0.88 | 5.25 |
| Copper | 0 | 8 | AB | 8.42 | 5.44 | 10.26 | 1.52 | 18.05 |
| Copper | 1 | 17 | B | 7.78 | 6.12 | 9.69 | 1.12 | 14.38 |
| Copper | 2 | 17 | A | 8.82 | 8.17 | 9.56 | 0.34 | 3.85 |
| Copper | 3 | 17 | AB | 8.29 | 7.26 | 8.79 | 0.38 | 4.64 |
| Lead | 0 | 8 | B | 2.77 | 1.95 | 3.13 | 0.37 | 13.43 |
| Lead | 1 | 17 | A | 3.08 | 2.84 | 3.24 | 0.12 | 3.86 |
| Lead | 2 | 17 | A | 3.20 | 3.09 | 3.34 | 0.06 | 1.90 |
| Lead | 3 | 17 | A | 3.12 | 2.81 | 3.24 | 0.10 | 3.25 |
| Manganese | 0 | 8 | A | 206.96 | 166.87 | 233.97 | 26.17 | 12.64 |
| Manganese | 1 | 17 | A | 216.94 | 187.03 | 262.15 | 21.21 | 9.78 |

**Table I-4 Between Zone Comparisons of Surface Sediments Metals (Untransformed) Using Student-Newman-Kuels Test**

| Analyte | Zone | n | Significantly Different Zones | Mean (µg/g) | Minimum (µg/g) | Maximum (µg/g) | Standard Deviation (µg/g) | Coefficient of Variation (%) |
|---|---|---|---|---|---|---|---|---|
| Manganese | 2 | 17 | A | 217.76 | 180.00 | 468.27 | 67.51 | 31.00 |
| Manganese | 3 | 17 | A | 222.92 | 165.07 | 336.19 | 43.19 | 19.38 |
| Mercury | 0 | 8 | AB | 0.01 | 0.01 | 0.03 | 0.01 | 48.59 |
| Mercury | 1 | 17 | B | 0.01 | 0.01 | 0.02 | 0.00 | 17.15 |
| Mercury | 2 | 17 | AB | 0.01 | 0.01 | 0.02 | 0.00 | 9.18 |
| Mercury | 3 | 17 | A | 0.01 | 0.01 | 0.02 | 0.00 | 8.58 |
| Nickel | 0 | 8 | A | 8.36 | 6.68 | 9.88 | 0.95 | 11.38 |
| Nickel | 1 | 17 | A | 7.86 | 6.69 | 9.41 | 0.91 | 11.54 |
| Nickel | 2 | 17 | A | 8.20 | 7.33 | 8.96 | 0.55 | 6.65 |
| Nickel | 3 | 17 | A | 8.55 | 7.58 | 8.95 | 0.32 | 3.78 |
| Selenium | 0 | 8 | C | 0.05 | 0.02 | 0.08 | 0.02 | 45.25 |
| Selenium | 1 | 17 | BC | 0.06 | 0.03 | 0.12 | 0.02 | 37.21 |
| Selenium | 2 | 17 | A | 0.09 | 0.06 | 0.12 | 0.02 | 19.02 |
| Selenium | 3 | 17 | A | 0.07 | 0.06 | 0.09 | 0.01 | 16.04 |
| Silver | 0 | 8 | A | 0.02 | 0.01 | 0.03 | 0.01 | 35.03 |
| Silver | 1 | 17 | A | 0.02 | 0.01 | 0.02 | 0.00 | 13.60 |
| Silver | 2 | 17 | A | 0.02 | 0.01 | 0.02 | 0.00 | 25.18 |
| Silver | 3 | 17 | A | 0.02 | 0.02 | 0.02 | 0.00 | 8.72 |
| Thallium | 0 | 8 | A | 0.10 | 0.08 | 0.13 | 0.02 | 17.24 |
| Thallium | 1 | 17 | A | 0.11 | 0.10 | 0.12 | 0.01 | 5.54 |
| Thallium | 2 | 17 | A | 0.11 | 0.10 | 0.12 | 0.00 | 4.01 |
| Thallium | 3 | 17 | A | 0.10 | 0.09 | 0.11 | 0.00 | 3.93 |
| Tin | 0 | 8 | B | 0.38 | 0.28 | 0.45 | 0.05 | 13.60 |
| Tin | 1 | 17 | A | 0.41 | 0.37 | 0.48 | 0.03 | 7.21 |
| Tin | 2 | 17 | A | 0.41 | 0.38 | 0.42 | 0.01 | 3.02 |
| Tin | 3 | 17 | A | 0.41 | 0.37 | 0.44 | 0.02 | 4.17 |
| Vanadium | 0 | 8 | B | 31.52 | 29.12 | 34.79 | 1.90 | 6.04 |
| Vanadium | 1 | 17 | B | 32.32 | 30.23 | 34.66 | 1.23 | 3.80 |
| Vanadium | 2 | 17 | B | 33.49 | 31.31 | 35.58 | 1.37 | 4.08 |
| Vanadium | 3 | 17 | A | 32.02 | 29.20 | 35.04 | 1.52 | 4.76 |
| Zinc | 0 | 8 | B | 25.29 | 20.11 | 29.05 | 2.49 | 9.84 |
| Zinc | 1 | 17 | B | 25.16 | 22.67 | 27.66 | 1.36 | 5.41 |
| Zinc | 2 | 17 | A | 26.99 | 26.22 | 28.54 | 0.63 | 2.35 |
| Zinc | 3 | 17 | A | 27.87 | 26.87 | 28.77 | 0.69 | 2.46 |

**Table I-5 Between Zone Comparisons of Surface Sediments Metals (Percent Iron Transformed) Using Student-Newman-Kuels Test**

| Analyte | Zone | n | Significantly Different Zones | Mean (µg/g) | Minimum (µg/g) | Maximum (µg/g) | Standard Deviation (µg/g) | Coefficient of Variation (%) |
|---|---|---|---|---|---|---|---|---|
| Antimony | 0 | 8 | B | 0.90 | 0.48 | 1.62 | 0.36 | 40.38 |
| Antimony | 1 | 17 | B | 0.84 | 0.64 | 1.08 | 0.14 | 16.63 |
| Antimony | 2 | 17 | B | 0.98 | 0.83 | 1.11 | 0.07 | 7.35 |
| Antimony | 3 | 17 | A | 1.16 | 1.06 | 1.20 | 0.03 | 2.89 |
| Arsenic | 0 | 8 | A | 9.96 | 4.03 | 16.33 | 4.24 | 42.56 |
| Arsenic | 1 | 17 | A | 8.02 | 4.80 | 11.90 | 2.07 | 25.78 |
| Arsenic | 2 | 17 | A | 9.51 | 6.69 | 13.70 | 1.56 | 16.45 |
| Arsenic | 3 | 17 | A | 9.01 | 7.00 | 12.10 | 1.33 | 14.79 |
| Barium | 0 | 8 | C | 758.00 | 538.33 | 894.33 | 126.34 | 16.67 |
| Barium | 1 | 17 | B | 814.07 | 738.00 | 914.00 | 56.82 | 6.98 |
| Barium | 2 | 17 | AB | 854.37 | 810.00 | 916.00 | 31.78 | 3.72 |
| Barium | 3 | 17 | A | 878.03 | 826.00 | 906.17 | 17.32 | 1.97 |
| Beryllium | 0 | 8 | B | 1.15 | 0.93 | 1.36 | 0.15 | 13.21 |
| Beryllium | 1 | 17 | B | 1.15 | 1.04 | 1.36 | 0.11 | 9.34 |
| Beryllium | 2 | 17 | B | 1.14 | 1.00 | 1.27 | 0.09 | 8.06 |
| Beryllium | 3 | 17 | A | 1.41 | 1.34 | 1.48 | 0.04 | 2.78 |
| Cadmium | 0 | 8 | C | 0.09 | 0.06 | 0.10 | 0.01 | 14.63 |
| Cadmium | 1 | 17 | C | 0.10 | 0.09 | 0.14 | 0.01 | 14.26 |
| Cadmium | 2 | 17 | B | 0.12 | 0.09 | 0.20 | 0.02 | 19.86 |
| Cadmium | 3 | 17 | A | 0.16 | 0.13 | 0.23 | 0.02 | 15.14 |
| Chromium | 0 | 8 | B | 66.26 | 46.10 | 89.62 | 15.81 | 23.87 |
| Chromium | 1 | 17 | B | 62.43 | 51.70 | 76.40 | 7.09 | 11.35 |
| Chromium | 2 | 17 | A | 73.44 | 59.20 | 80.90 | 5.29 | 7.20 |
| Chromium | 3 | 17 | A | 75.21 | 67.60 | 80.70 | 3.63 | 4.83 |
| Copper | 0 | 8 | AB | 34.08 | 21.23 | 51.05 | 10.49 | 30.78 |
| Copper | 1 | 17 | B | 30.58 | 21.00 | 41.10 | 6.42 | 21.01 |
| Copper | 2 | 17 | A | 37.72 | 30.90 | 41.20 | 2.89 | 7.67 |
| Copper | 3 | 17 | A | 37.36 | 33.90 | 40.00 | 1.50 | 4.03 |
| Lead | 0 | 8 | C | 11.04 | 7.60 | 13.68 | 2.20 | 19.97 |
| Lead | 1 | 17 | B | 12.02 | 10.20 | 13.70 | 1.21 | 10.02 |
| Lead | 2 | 17 | A | 13.69 | 12.00 | 14.90 | 0.75 | 5.51 |
| Lead | 3 | 17 | A | 14.05 | 13.10 | 14.50 | 0.32 | 2.28 |
| Manganese | 0 | 8 | A | 818.54 | 628.33 | 943.67 | 125.88 | 15.38 |
| Manganese | 1 | 17 | A | 846.42 | 677.00 | 1048.50 | 108.61 | 12.83 |
| Manganese | 2 | 17 | A | 936.34 | 735.00 | 2140.00 | 328.36 | 35.07 |

**Table I-5 Between Zone Comparisons of Surface Sediments Metals (Percent Iron Transformed) Using Student-Newman-Kuels Test**

| Analyte | Zone | n | Significantly Different Zones | Mean (µg/g) | Minimum (µg/g) | Maximum (µg/g) | Standard Deviation (µg/g) | Coefficient of Variation (%) |
|---|---|---|---|---|---|---|---|---|
| Manganese | 3 | 17 | A | 1006.55 | 723.00 | 1570.00 | 206.16 | 20.48 |
| Mercury | 0 | 8 | A | 0.06 | 0.03 | 0.12 | 0.04 | 60.05 |
| Mercury | 1 | 17 | A | 0.04 | 0.03 | 0.07 | 0.01 | 23.39 |
| Mercury | 2 | 17 | A | 0.06 | 0.05 | 0.07 | 0.01 | 12.98 |
| Mercury | 3 | 17 | A | 0.06 | 0.05 | 0.07 | 0.00 | 7.92 |
| Nickel | 0 | 8 | BC | 33.50 | 26.00 | 49.15 | 7.87 | 23.49 |
| Nickel | 1 | 17 | C | 30.79 | 23.30 | 39.90 | 5.28 | 17.17 |
| Nickel | 2 | 17 | AB | 35.12 | 27.70 | 39.50 | 3.76 | 10.71 |
| Nickel | 3 | 17 | A | 38.52 | 35.40 | 39.90 | 1.12 | 2.90 |
| Selenium | 0 | 8 | B | 0.20 | 0.07 | 0.30 | 0.10 | 49.52 |
| Selenium | 1 | 17 | B | 0.25 | 0.10 | 0.53 | 0.11 | 42.40 |
| Selenium | 2 | 17 | A | 0.38 | 0.25 | 0.56 | 0.08 | 20.82 |
| Selenium | 3 | 17 | A | 0.33 | 0.25 | 0.42 | 0.05 | 15.93 |
| Silver | 0 | 8 | A | 0.07 | 0.04 | 0.12 | 0.03 | 44.95 |
| Silver | 1 | 17 | A | 0.07 | 0.05 | 0.09 | 0.01 | 15.85 |
| Silver | 2 | 17 | A | 0.07 | 0.05 | 0.10 | 0.02 | 25.44 |
| Silver | 3 | 17 | A | 0.09 | 0.08 | 0.10 | 0.01 | 8.03 |
| Thallium | 0 | 8 | B | 0.41 | 0.33 | 0.47 | 0.04 | 10.88 |
| Thallium | 1 | 17 | B | 0.42 | 0.38 | 0.48 | 0.03 | 7.69 |
| Thallium | 2 | 17 | A | 0.47 | 0.41 | 0.50 | 0.03 | 5.50 |
| Thallium | 3 | 17 | A | 0.47 | 0.44 | 0.49 | 0.02 | 4.00 |
| Tin | 0 | 8 | C | 1.50 | 1.08 | 1.81 | 0.30 | 20.12 |
| Tin | 1 | 17 | BC | 1.62 | 1.34 | 1.96 | 0.20 | 12.18 |
| Tin | 2 | 17 | AB | 1.73 | 1.57 | 1.87 | 0.08 | 4.67 |
| Tin | 3 | 17 | A | 1.83 | 1.75 | 1.95 | 0.06 | 3.17 |
| Vanadium | 0 | 8 | B | 126.28 | 90.13 | 173.00 | 25.73 | 20.37 |
| Vanadium | 1 | 17 | B | 126.00 | 107.00 | 140.00 | 10.55 | 8.37 |
| Vanadium | 2 | 17 | A | 143.16 | 121.00 | 158.00 | 10.29 | 7.19 |
| Vanadium | 3 | 17 | A | 144.31 | 132.00 | 157.00 | 6.89 | 4.77 |
| Zinc | 0 | 8 | C | 101.09 | 69.80 | 126.67 | 20.17 | 19.95 |
| Zinc | 1 | 17 | C | 98.39 | 77.70 | 117.00 | 12.05 | 12.24 |
| Zinc | 2 | 17 | B | 115.35 | 100.00 | 123.00 | 7.07 | 6.13 |
| Zinc | 3 | 17 | A | 125.60 | 122.00 | 128.00 | 1.73 | 1.38 |

**Table I-6 Results of Metals and Physical Parameters (as Percentages of Sediment) Using Student-Newman-Kuels Test**

| Analyte | Zone | n | Significantly Different Zones | Mean (%) | Minimum (%) | Maximum (%) | Standard Deviation (%) | Coefficient of Variation (%) |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 0 | 8 | A | 7.29 | 6.17 | 7.99 | 0.64 | 8.77 |
| Aluminum | 1 | 17 | A | 7.46 | 6.57 | 8.16 | 0.36 | 4.80 |
| Aluminum | 2 | 17 | A | 7.48 | 6.94 | 7.73 | 0.23 | 3.13 |
| Aluminum | 3 | 17 | A | 7.17 | 5.64 | 7.64 | 0.48 | 6.72 |
| Calcium | 0 | 8 | A | 2.68 | 1.81 | 4.16 | 0.92 | 34.21 |
| Calcium | 1 | 17 | B | 2.21 | 1.87 | 2.63 | 0.17 | 7.62 |
| Calcium | 2 | 17 | C | 1.86 | 1.55 | 2.18 | 0.19 | 10.31 |
| Calcium | 3 | 17 | C | 1.75 | 1.51 | 1.96 | 0.13 | 7.70 |
| Clay | 0 | 8 | C | 2.45 | 1.15 | 4.58 | 1.17 | 47.69 |
| Clay | 1 | 17 | B | 4.06 | 1.47 | 8.92 | 1.66 | 40.88 |
| Clay | 2 | 17 | A | 6.15 | 2.80 | 16.30 | 3.03 | 49.31 |
| Clay | 3 | 17 | AB | 5.11 | 2.65 | 7.57 | 1.46 | 28.54 |
| Iron | 0 | 8 | B | 3.98 | 2.87 | 4.93 | 0.64 | 15.98 |
| Iron | 1 | 17 | B | 3.90 | 3.37 | 4.40 | 0.31 | 7.89 |
| Iron | 2 | 17 | A | 4.28 | 3.78 | 4.57 | 0.24 | 5.54 |
| Iron | 3 | 17 | A | 4.51 | 4.38 | 4.67 | 0.08 | 1.70 |
| Magnesium | 0 | 8 | C | 1.51 | 1.18 | 1.77 | 0.17 | 11.45 |
| Magnesium | 1 | 17 | C | 1.45 | 1.21 | 1.82 | 0.17 | 11.76 |
| Magnesium | 2 | 17 | B | 1.71 | 1.56 | 1.83 | 0.08 | 4.72 |
| Magnesium | 3 | 17 | A | 1.85 | 1.71 | 1.93 | 0.07 | 3.57 |
| Potassium | 0 | 8 | B | 1.68 | 1.41 | 1.97 | 0.17 | 10.16 |
| Potassium | 1 | 17 | B | 1.62 | 1.34 | 2.03 | 0.20 | 12.23 |
| Potassium | 2 | 17 | B | 1.68 | 1.57 | 1.85 | 0.07 | 4.38 |
| Potassium | 3 | 17 | A | 1.82 | 1.62 | 1.96 | 0.09 | 5.08 |
| Sand | 0 | 8 | A | 42.24 | 5.37 | 76.83 | 26.82 | 63.49 |
| Sand | 1 | 17 | A | 32.43 | 2.63 | 69.70 | 22.37 | 68.99 |
| Sand | 2 | 17 | B | 6.28 | 0.51 | 27.20 | 7.54 | 119.91 |
| Sand | 3 | 17 | B | 2.49 | 0.31 | 17.70 | 4.35 | 174.58 |
| Silt | 0 | 8 | B | 55.30 | 21.83 | 90.08 | 25.76 | 46.59 |
| Silt | 1 | 17 | B | 63.50 | 28.20 | 92.40 | 21.27 | 33.49 |
| Silt | 2 | 17 | A | 87.55 | 68.60 | 96.40 | 7.98 | 9.12 |
| Silt | 3 | 17 | A | 92.39 | 79.20 | 96.30 | 4.15 | 4.49 |
| Total Organic Carbon | 0 | 8 | B | 0.64 | 0.36 | 1.18 | 0.33 | 52.15 |
| Total Organic Carbon | 1 | 17 | B | 0.57 | 0.37 | 0.94 | 0.17 | 29.68 |
| Total Organic Carbon | 2 | 17 | A | 0.84 | 0.48 | 1.04 | 0.14 | 16.12 |
| Total Organic Carbon | 3 | 17 | A | 0.95 | 0.86 | 1.16 | 0.08 | 8.66 |

**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 |

**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 |
|---|---|---|---|---|---|---|---|---|
| | 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 |

**Table I-8 Results of Organic Compound Sediment Parameters (Total Organic Carbon Transformed) 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 | 21.549 |
| | 2 | 17 | AB | 0.151 | 0.111 | 0.164 | 0.012 | 8.260 |
| | 3 | 17 | AB | 0.151 | 0.126 | 0.177 | 0.012 | 8.132 |
| | 1 | 17 | B | 0.137 | 0.108 | 0.164 | 0.016 | 11.992 |
| C3D/C3P | 0 | 8 | A | 0.215 | 0.127 | 0.289 | 0.048 | 22.293 |
| | 2 | 17 | AB | 0.197 | 0.163 | 0.250 | 0.024 | 11.990 |
| | 3 | 17 | BC | 0.189 | 0.173 | 0.225 | 0.013 | 7.068 |
| | 1 | 17 | C | 0.171 | 0.143 | 0.200 | 0.018 | 10.662 |
| CPI | 1 | 17 | A | 3.308 | 1.356 | 5.425 | 1.333 | 40.305 |
| | 0 | 8 | A | 3.209 | 1.859 | 7.000 | 1.618 | 50.418 |
| | 2 | 17 | A | 2.626 | 1.618 | 4.579 | 0.698 | 26.566 |
| | 3 | 17 | A | 2.304 | 1.136 | 4.811 | 0.854 | 37.042 |
| Hopane (ug/g) | 2 | 17 | A | 0.004 | 0.001 | 0.015 | 0.003 | 85.616 |
| | 1 | 17 | A | 0.003 | 0.002 | 0.004 | 0.000 | 14.505 |
| | 0 | 8 | A | 0.003 | 0.002 | 0.003 | 0.000 | 7.504 |
| | 3 | 17 | A | 0.003 | 0.001 | 0.004 | 0.001 | 35.134 |
| Isoprenoids (ug/g) | 1 | 17 | A | 0.191 | 0.117 | 0.268 | 0.040 | 21.119 |
| | 3 | 17 | B | 0.134 | 0.059 | 0.199 | 0.041 | 30.397 |
| | 2 | 17 | B | 0.131 | 0.090 | 0.188 | 0.032 | 24.855 |
| | 0 | 8 | C | 0.075 | 0.051 | 0.155 | 0.034 | 45.163 |
| LALK (ug/g) | 1 | 17 | A | 0.799 | 0.452 | 1.395 | 0.267 | 33.479 |
| | 3 | 17 | B | 0.423 | 0.270 | 0.580 | 0.087 | 20.523 |
| | 2 | 17 | B | 0.410 | 0.250 | 0.629 | 0.114 | 27.863 |
| | 0 | 8 | C | 0.263 | 0.161 | 0.409 | 0.086 | 32.535 |
| N/P | 2 | 17 | A | 0.980 | 0.652 | 1.568 | 0.346 | 35.265 |
| | 3 | 17 | A | 0.972 | 0.743 | 1.492 | 0.197 | 20.237 |
| | 1 | 17 | A | 0.972 | 0.713 | 1.144 | 0.132 | 13.557 |
| | 0 | 8 | B | 0.643 | 0.523 | 0.792 | 0.098 | 15.196 |
| nC15+nC17 (ug/g) | 1 | 17 | A | 0.083 | 0.060 | 0.108 | 0.016 | 19.163 |
| | 2 | 17 | B | 0.066 | 0.042 | 0.112 | 0.017 | 26.267 |
| | 3 | 17 | B | 0.061 | 0.031 | 0.085 | 0.015 | 24.601 |
| | 0 | 8 | C | 0.048 | 0.036 | 0.061 | 0.009 | 18.440 |
| nC16/(nC15+nC17) | 1 | 17 | A | 0.162 | 0.087 | 0.233 | 0.033 | 20.615 |
| | 3 | 17 | A | 0.155 | 0.128 | 0.176 | 0.013 | 8.470 |
| | 2 | 17 | A | 0.153 | 0.114 | 0.194 | 0.025 | 16.642 |
| | 0 | 8 | B | 0.092 | 0.027 | 0.146 | 0.043 | 46.531 |
| nC27+nC29+nC31 (ug/g) | 0 | 8 | A | 0.517 | 0.296 | 0.713 | 0.129 | 24.906 |
| | 1 | 17 | AB | 0.444 | 0.096 | 0.742 | 0.189 | 42.625 |
| | 2 | 17 | BC | 0.370 | 0.190 | 0.628 | 0.114 | 30.733 |
| | 3 | 17 | C | 0.269 | 0.075 | 0.443 | 0.112 | 41.502 |
| Oleanane/Hopane | 0 | 8 | A | 0.184 | 0.111 | 0.250 | 0.043 | 23.143 |
| | 2 | 17 | A | 0.169 | 0.093 | 0.231 | 0.039 | 22.781 |
| | 1 | 17 | A | 0.167 | 0.084 | 0.278 | 0.063 | 37.711 |
| | 3 | 17 | A | 0.160 | 0.103 | 0.246 | 0.033 | 20.700 |

**Table I-8 Results of Organic Compound Sediment Parameters (Total Organic Carbon Transformed) Using Student-Newman-Keuls Test in 1997 Surface Sediments**

| Analyte | Zone | n | Significantly Different Zones | Mean | Minimum | Maximum | Standard Deviation | Coefficient of Variation |
|---|---|---|---|---|---|---|---|---|
| Perylene (ug/g) | 0 | 8 | A | 0.023 | 0.007 | 0.035 | 0.011 | 46.976 |
| | 3 | 17 | B | 0.014 | 0.006 | 0.025 | 0.005 | 39.656 |
| | 1 | 17 | B | 0.011 | 0.007 | 0.016 | 0.002 | 19.687 |
| | 2 | 17 | B | 0.011 | 0.006 | 0.019 | 0.003 | 31.332 |
| Petrogenic PAH (ug/g) | 1 | 17 | A | 0.485 | 0.234 | 0.702 | 0.143 | 29.524 |
| | 2 | 17 | A | 0.403 | 0.234 | 0.604 | 0.103 | 25.546 |
| | 3 | 17 | A | 0.385 | 0.225 | 0.493 | 0.075 | 19.568 |
| | 0 | 8 | B | 0.244 | 0.146 | 0.518 | 0.115 | 47.143 |
| Phytane/pristane | 0 | 8 | A | 0.170 | 0.097 | 0.262 | 0.053 | 31.300 |
| | 1 | 17 | B | 0.110 | 0.052 | 0.205 | 0.045 | 41.042 |
| | 2 | 17 | B | 0.101 | 0.073 | 0.136 | 0.017 | 16.536 |
| | 3 | 17 | B | 0.097 | 0.052 | 0.229 | 0.042 | 42.744 |
| Pristane (ug/g) | 1 | 17 | A | 0.106 | 0.040 | 0.176 | 0.038 | 35.462 |
| | 3 | 17 | A | 0.083 | 0.034 | 0.137 | 0.030 | 36.763 |
| | 2 | 17 | A | 0.078 | 0.048 | 0.125 | 0.023 | 29.282 |
| | 0 | 8 | B | 0.042 | 0.027 | 0.104 | 0.026 | 62.064 |
| Pyrogenic PAH (ug/g) | 0 | 8 | A | 0.050 | 0.031 | 0.072 | 0.017 | 34.273 |
| | 1 | 17 | A | 0.045 | 0.029 | 0.055 | 0.008 | 16.991 |
| | 3 | 17 | A | 0.041 | 0.020 | 0.062 | 0.013 | 30.505 |
| | 2 | 17 | A | 0.039 | 0.022 | 0.068 | 0.011 | 28.516 |
| Pyrogenic/Petrogenic | 0 | 8 | A | 0.234 | 0.087 | 0.471 | 0.123 | 52.391 |
| | 3 | 17 | B | 0.106 | 0.084 | 0.139 | 0.016 | 15.018 |
| | 2 | 17 | B | 0.097 | 0.071 | 0.134 | 0.014 | 14.163 |
| | 1 | 17 | B | 0.096 | 0.076 | 0.124 | 0.016 | 16.283 |
| T21/T22 | 3 | 17 | A | 0.452 | 0.400 | 0.559 | 0.035 | 7.750 |
| | 2 | 17 | A | 0.437 | 0.250 | 0.757 | 0.127 | 29.064 |
| | 1 | 17 | A | 0.333 | 0.146 | 0.758 | 0.189 | 56.697 |
| | 0 | 8 | B | 0.160 | 0.057 | 0.422 | 0.115 | 71.931 |
| TALK (ug/g) | 1 | 17 | A | 2.860 | 1.306 | 13.789 | 2.886 | 100.925 |
| | 2 | 17 | A | 2.093 | 0.773 | 15.101 | 3.365 | 160.794 |
| | 0 | 8 | A | 1.523 | 1.154 | 1.890 | 0.251 | 16.472 |
| | 3 | 17 | A | 1.195 | 0.546 | 1.797 | 0.367 | 30.664 |
| Total PAH (ug/g) | 1 | 17 | A | 0.529 | 0.263 | 0.756 | 0.150 | 28.369 |
| | 2 | 17 | A | 0.442 | 0.255 | 0.672 | 0.113 | 25.534 |
| | 3 | 17 | A | 0.426 | 0.245 | 0.540 | 0.087 | 20.407 |
| | 0 | 8 | B | 0.294 | 0.215 | 0.563 | 0.114 | 38.917 |
| Total S/T (ug/g) | 0 | 8 | A | 0.029 | 0.016 | 0.048 | 0.012 | 42.453 |
| | 1 | 17 | B | 0.022 | 0.015 | 0.027 | 0.003 | 15.252 |
| | 2 | 17 | B | 0.019 | 0.008 | 0.064 | 0.013 | 66.250 |
| | 3 | 17 | B | 0.014 | 0.007 | 0.021 | 0.005 | 32.855 |
| Total PHC (ug/g) | 1 | 17 | A | 38.186 | 16.17647 | 67.213 | 16.411 | 42.977 |
| | 0 | 8 | B | 25.711 | 17.40855 | 41.111 | 8.496 | 33.042 |
| | 3 | 17 | B | 24.988 | 12.14953 | 42.718 | 9.122 | 36.504 |
| | 2 | 17 | B | 23.052 | 11.11111 | 41.667 | 8.429 | 36.564 |
| Ts/(Ts+Tm) | 1 | 17 | A | 0.336 | 0.229 | 0.393 | 0.052 | 15.519 |
| | 2 | 17 | AB | 0.313 | 0.228 | 0.393 | 0.044 | 14.196 |
| | 0 | 8 | B | 0.279 | 0.180 | 0.499 | 0.102 | 36.573 |

**Table I-8 Results of Organic Compound Sediment Parameters (Total Organic Carbon Transformed) Using Student-Newman-Keuls Test in 1997 Surface Sediments**

| Analyte | Zone | n | Significantly Different Zones | Mean | Minimum | Maximum | Standard Deviation | Coefficient of Variation |
|---|---|---|---|---|---|---|---|---|
| | 3 | 17 | B | 0.274 | 0.244 | 0.330 | 0.028 | 10.094 |