

# Mixed Analyte Performance Evaluation Program

## Statistical Summary Semivolatile Organics Water Standard

Sample ID: MAPEP-05-OrW14

| Analyte                   | T(1) | A(2) | Grand Mean | Std. Dev. | Reference Value | Analyte Text | Acceptance Limits | Units  |
|---------------------------|------|------|------------|-----------|-----------------|--------------|-------------------|--------|
| Analine                   | 5    |      |            |           |                 |              |                   |        |
| Phenol                    | 8    |      |            |           |                 |              |                   |        |
| 2-Chlorophenol            | 23   | 23   | 81.42      | 21.31     | 81.4            |              | 17.50 - 145.33    | (ug/L) |
| 1,3-Dichlorobenzene       | 23   | 23   | 34.22      | 8.77      | 34.2            |              | 7.93 - 60.51      | (ug/L) |
| 1,4-Dichlorobenzene       | 8    |      |            |           |                 |              |                   |        |
| Benzyl Alcohol            | 8    |      |            |           |                 |              |                   |        |
| 1,2-Dichlorobenzene       | 8    |      |            |           |                 |              |                   |        |
| Hexachloroethane          | 23   | 23   | 39.48      | 10.24     | 39.5            |              | 8.78 - 70.19      | (ug/L) |
| Nitrobenzene              | 23   | 23   | 52.19      | 11.67     | 52.2            |              | 17.19 - 87.18     | (ug/L) |
| Isophorone                | 8    |      |            |           |                 |              |                   |        |
| 2-Nitrophenol             | 8    |      |            |           |                 |              |                   |        |
| 2,4-Dimethylphenol        | 23   | 23   | 70.84      | 15.14     | 70.8            |              | 25.44 - 116.24    | (ug/L) |
| 2,4-Dichlorophenol        | 8    |      |            |           |                 |              |                   |        |
| 1,2,4-Trichlorobenzene    | 23   | 23   | 38.48      | 9.64      | 38.5            |              | 9.57 - 67.39      | (ug/L) |
| Naphthalene               | 23   | 23   | 41.94      | 8.78      | 41.9            |              | 15.60 - 68.28     | (ug/L) |
| Hexachlorobutadiene       | 23   | 22   | 41.77      | 13.04     | 41.2            |              | 2.66 - 80.89      | (ug/L) |
| 4-Chloro-3-methylphenol   | 8    |      |            |           |                 |              |                   |        |
| 2-Methylnaphthalene       | 8    |      |            |           |                 |              |                   |        |
| 2-Methylphenol            | 22   | 22   | 63.22      | 18.92     | 63.2            |              | 6.47 - 119.98     | (ug/L) |
| Hexachlorocyclopentadiene | 8    |      |            |           |                 |              |                   |        |
| 3 Methyl & 4-Methylphenol | 8    |      |            |           |                 |              |                   |        |
| 2,4,6-Trichlorophenol     | 8    |      |            |           |                 |              |                   |        |
| 2,6-Dichlorophenol        | 13   | 13   | 50.48      | 11.76     | 50.5            |              | 15.21 - 85.75     | (ug/L) |
| o-Toluidine               | 3    |      |            |           |                 |              |                   |        |
| 1,4-Phenylenediamine      | 3    |      |            |           |                 |              |                   |        |
| 2-Chloronaphthalene       | 7    |      |            |           |                 |              |                   |        |
| 2-Nitroanaline            | 8    |      |            |           |                 |              |                   |        |
| Dimethylphthalate         | 8    |      |            |           |                 |              |                   |        |
| Acenaphthylene            | 8    |      |            |           |                 |              |                   |        |
| 2,6-Dinitrotoluene        | 23   | 23   | 48.30      | 9.38      | 48.3            |              | 20.16 - 76.44     | (ug/L) |
| 3-Nitroanaline            | 8    |      |            |           |                 |              |                   |        |
| Acenaphthene              | 8    |      |            |           |                 |              |                   |        |
| 2,4-Dinitrotoluene        | 23   | 23   | 94.06      | 19.81     | 94.1            |              | 34.65 - 153.47    | (ug/L) |
| 2,4-Dinitrophenol         | 8    |      |            |           |                 |              |                   |        |

**Note:** Outliers are excluded from the statistical summary.  
Outliers are defined as laboratory data outside the "biweight" 95% confidence interval.  
(1) T = Total Number of Laboratories Reporting Analyte.  
(2) A = Number of Laboratories with 'Acceptable' Performance.

| Analyte                    | T(1) | A(2) | Grand Mean | Std. Dev. | Reference Value | Analyte Text | Acceptance Limits | Units  |
|----------------------------|------|------|------------|-----------|-----------------|--------------|-------------------|--------|
| 4-Chloroaniline            | 8    |      |            |           |                 |              |                   |        |
| Dibenzofuran               | 8    |      |            |           |                 |              |                   |        |
| 4-Nitrophenol              | 8    |      |            |           |                 |              |                   |        |
| 2-Naphthylamine            | 3    |      |            |           |                 |              |                   |        |
| 1,4-Naphthoquinone         | 3    |      |            |           |                 |              |                   |        |
| Fluorene                   | 8    |      |            |           |                 |              |                   |        |
| Diethylphthalate           | 23   | 23   | 53.53      | 8.75      | 53.5            |              | 27.29 - 79.77     | (ug/L) |
| 4,6-Dinitro-2-methylphenol | 8    |      |            |           |                 |              |                   |        |
| 1,2,4,5-Tetrachlorobenzene | 3    |      |            |           |                 |              |                   |        |
| 2,4,5-Trichlorophenol      | 8    |      |            |           |                 |              |                   |        |
| Hexachlorobenzene          | 21   | 21   | 35.69      | 24.83     | 35.7            |              | QL - 110.16       | (ug/L) |
| Pentachlorophenol          | 8    |      |            |           |                 |              |                   |        |
| 4-Nitroaniline             | 8    |      |            |           |                 |              |                   |        |
| Phenanthrene               | 9    |      |            |           |                 |              |                   |        |
| Anthracene                 | 22   | 22   | 34.93      | 21.81     | 34.9            |              | QL - 100.34       | (ug/L) |
| 1,4-Dinitrobenzene         | 2    |      |            |           |                 |              |                   |        |
| 1,3-Dinitrobenzene         | 12   | 12   | 39.07      | 12.19     | 39.1            |              | 2.53 - 75.62      | (ug/L) |
| 1,2-Dinitrobenzene         | 1    |      |            |           |                 |              |                   |        |
| Pentachlorobenzene         | 3    |      |            |           |                 |              |                   |        |
| Pentachloronitrobenzene    | 3    |      |            |           |                 |              |                   |        |
| Di-n-butylphthalate        | 9    |      |            |           |                 |              |                   |        |
| 2,3,4,6-Tetrachlorophenol  | 4    |      |            |           |                 |              |                   |        |
| Fluoranthene               | 23   | 23   | 37.65      | 19.17     | 37.6            |              | QL - 95.13        | (ug/L) |
| Pyrene                     | 23   | 23   | 31.07      | 19.45     | 31.1            |              | QL - 89.40        | (ug/L) |
| Dinoseb                    | 2    |      |            |           |                 |              |                   |        |
| Butylbenzylphthalate       | 8    |      |            |           |                 |              |                   |        |
| Benzo(a)anthracene         | 20   | 20   | 28.94      | 16.84     | 28.9            |              | QL - 79.44        | (ug/L) |
| Chrysene                   | 8    |      |            |           |                 |              |                   |        |
| Bis(2-ethylhexyl)phthalate | 11   |      |            |           |                 |              |                   |        |
| Di-n-octylphthalate        | 8    |      |            |           |                 |              |                   |        |
| Benzo(b)fluoranthene       | 8    |      |            |           |                 |              |                   |        |
| Benzo(k)fluoranthene       | 8    |      |            |           |                 |              |                   |        |
| Benzo(a)pyrene             | 8    |      |            |           |                 |              |                   |        |
| Indeno(1,2,3-c,d)pyrene    | 8    |      |            |           |                 |              |                   |        |
| Dibenzo(a,h)anthracene     | 8    |      |            |           |                 |              |                   |        |
| Benzo(g,h,i)perylene       | 8    |      |            |           |                 |              |                   |        |
| alpha-BHC                  | 3    |      |            |           |                 |              |                   |        |
| beta-BHC                   | 3    |      |            |           |                 |              |                   |        |

**Note:** Outliers are excluded from the statistical summary.  
Outliers are defined as laboratory data outside the "biweight" 95% confidence interval.  
(1) T = Total Number of Laboratories Reporting Analyte.  
(2) A = Number of Laboratories with 'Acceptable' Performance.

| Analyte             | T(1) | A(2) | Grand Mean | Std. Dev. | Reference Value | Analyte Text | Acceptance Limits | Units  |
|---------------------|------|------|------------|-----------|-----------------|--------------|-------------------|--------|
| gamma-BHC (Lindane) | 3    |      |            |           |                 |              |                   |        |
| delta-BHC           | 3    |      |            |           |                 |              |                   |        |
| Heptachlor          | 12   | 12   | 2.07       | 0.56      | 2.07            |              | 0.38 - 3.76       | (ug/L) |
| Aldrin              | 3    |      |            |           |                 |              |                   |        |
| Heptachlor epoxide  | 3    |      |            |           |                 |              |                   |        |
| Endosulfan I        | 3    |      |            |           |                 |              |                   |        |
| 4,4'-DDE            | 12   | 10   | 2.68       | 0.67      | 2.52            |              | 0.67 - 4.70       | (ug/L) |
| Dieldrin            | 3    |      |            |           |                 |              |                   |        |
| Endrin              | 3    |      |            |           |                 |              |                   |        |
| 4,4'-DDD            | 5    |      |            |           |                 |              |                   |        |
| Endosulfan II       | 3    |      |            |           |                 |              |                   |        |
| 4,4'-DDT            | 12   | 12   | 4.41       | 1.52      | 4.41            |              | QL - 8.97         | (ug/L) |
| Endrin Aldehyde     | 3    |      |            |           |                 |              |                   |        |
| Endosulfan sulfate  | 3    |      |            |           |                 |              |                   |        |
| Endrin Ketone       | 3    |      |            |           |                 |              |                   |        |
| Methoxychlor        | 3    |      |            |           |                 |              |                   |        |

**Note:** Outliers are excluded from the statistical summary.  
Outliers are defined as laboratory data outside the "biweight" 95% confidence interval.  
(1) T = Total Number of Laboratories Reporting Analyte.  
(2) A = Number of Laboratories with 'Acceptable' Performance.