

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q2820

**Analytical Method:** SW8270E

**Client:** First Environment, Inc.

**DataFile:** BP025416.D

| Parameter                   | Spike              | Sample Result            | Result          | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|-----------------------------|--------------------|--------------------------|-----------------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q2820-17MSD</b> | <b>Client Sample ID:</b> | <b>88H-EMSD</b> |       |     |          |     |          |     |             |     |
| Benzaldehyde                | 2000               | 0                        | 1100            | ug/Kg | 55  |          | 0   |          | 10  | 161         | 20  |
| Phenol                      | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 34  | 121         | 20  |
| bis(2-Chloroethyl)ether     | 2000               | 0                        | 1700            | ug/Kg | 85  |          | 0   |          | 31  | 120         | 20  |
| 2-Chlorophenol              | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 34  | 121         | 20  |
| 2-Methylphenol              | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 32  | 122         | 20  |
| 2,2-oxybis(1-Chloropropane) | 2000               | 0                        | 1700            | ug/Kg | 85  |          | 0   |          | 33  | 131         | 20  |
| Acetophenone                | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 33  | 115         | 20  |
| 3+4-Methylphenols           | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 34  | 119         | 20  |
| N-Nitroso-di-n-propylamine  | 2000               | 0                        | 1700            | ug/Kg | 85  |          | 6   |          | 36  | 120         | 20  |
| Hexachloroethane            | 2000               | 0                        | 1700            | ug/Kg | 85  |          | 0   |          | 28  | 117         | 20  |
| Nitrobenzene                | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 34  | 122         | 20  |
| Isophorone                  | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 30  | 122         | 20  |
| 2-Nitrophenol               | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 36  | 123         | 20  |
| 2,4-Dimethylphenol          | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 30  | 127         | 20  |
| bis(2-Chloroethoxy)methane  | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 36  | 121         | 20  |
| 2,4-Dichlorophenol          | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 40  | 122         | 20  |
| Naphthalene                 | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 35  | 123         | 20  |
| 4-Chloroaniline             | 2000               | 0                        | 1000            | ug/Kg | 50  |          | 6   |          | 17  | 106         | 20  |
| Hexachlorobutadiene         | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 32  | 123         | 20  |
| Caprolactam                 | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 46  | 117         | 20  |
| 4-Chloro-3-methylphenol     | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 11  |          | 45  | 122         | 20  |
| 2-Methylnaphthalene         | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 38  | 122         | 20  |
| Hexachlorocyclopentadiene   | 4000               | 0                        | 3600            | ug/Kg | 90  |          | 2   |          | 43  | 112         | 20  |
| 2,4,6-Trichlorophenol       | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 39  | 126         | 20  |
| 2,4,5-Trichlorophenol       | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 41  | 124         | 20  |
| 1,1-Biphenyl                | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 40  | 117         | 20  |
| 2-Chloronaphthalene         | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 41  | 114         | 20  |
| 2-Nitroaniline              | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 44  | 127         | 20  |
| Dimethylphthalate           | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 48  | 124         | 20  |
| Acenaphthylene              | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 32  | 132         | 20  |
| 2,6-Dinitrotoluene          | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 46  | 124         | 20  |
| 3-Nitroaniline              | 2000               | 0                        | 1300            | ug/Kg | 65  |          | 8   |          | 33  | 119         | 20  |
| Acenaphthene                | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 40  | 123         | 20  |
| 2,4-Dinitrophenol           | 4000               | 0                        | 4100            | ug/Kg | 103 |          | 5   |          | 15  | 130         | 20  |
| 4-Nitrophenol               | 4000               | 0                        | 4000            | ug/Kg | 100 |          | 5   |          | 30  | 132         | 20  |
| Dibenzofuran                | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 44  | 120         | 20  |
| 2,4-Dinitrotoluene          | 2000               | 0                        | 2000            | ug/Kg | 100 |          | 5   |          | 48  | 126         | 20  |
| Diethylphthalate            | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 50  | 124         | 20  |
| 4-Chlorophenyl-phenylether  | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 45  | 121         | 20  |
| Fluorene                    | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 43  | 125         | 20  |
| 4-Nitroaniline              | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 6   |          | 35  | 115         | 20  |
| 4,6-Dinitro-2-methylphenol  | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 29  | 132         | 20  |
| N-Nitrosodiphenylamine      | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 38  | 127         | 20  |
| 4-Bromophenyl-phenylether   | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 46  | 124         | 20  |
| Hexachlorobenzene           | 2000               | 0                        | 1800            | ug/Kg | 90  |          | 0   |          | 45  | 122         | 20  |
| Atrazine                    | 2000               | 0                        | 1900            | ug/Kg | 95  |          | 5   |          | 47  | 127         | 20  |

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**SW-846**

**SDG No.:** Q2820

**Analytical Method:** SW8270E

**Client:** First Environment, Inc.

**DataFile:** BP025416.D

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 4000  | 0                | 4000   | ug/Kg | 100 |             | 5   |             | 25  | 133            | 20  |
| Phenanthrene               | 2000  | 0                | 1800   | ug/Kg | 90  |             | 0   |             | 50  | 121            | 20  |
| Anthracene                 | 2000  | 0                | 1800   | ug/Kg | 90  |             | 0   |             | 47  | 123            | 20  |
| Carbazole                  | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 50  | 123            | 20  |
| Di-n-butylphthalate        | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 51  | 128            | 20  |
| Fluoranthene               | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 50  | 127            | 20  |
| Pyrene                     | 2000  | 0                | 1800   | ug/Kg | 90  |             | 6   |             | 47  | 127            | 20  |
| Butylbenzylphthalate       | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 48  | 132            | 20  |
| 3,3-Dichlorobenzidine      | 2000  | 0                | 1100   | ug/Kg | 55  |             | 10  |             | 22  | 121            | 20  |
| Benzo(a)anthracene         | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 49  | 126            | 20  |
| Chrysene                   | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 50  | 124            | 20  |
| bis(2-Ethylhexyl)phthalate | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 51  | 133            | 20  |
| Di-n-octyl phthalate       | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 45  | 140            | 20  |
| Benzo(b)fluoranthene       | 2000  | 0                | 1800   | ug/Kg | 90  |             | 0   |             | 45  | 132            | 20  |
| Benzo(k)fluoranthene       | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 47  | 132            | 20  |
| Benzo(a)pyrene             | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 45  | 129            | 20  |
| Indeno(1,2,3-cd)pyrene     | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 45  | 133            | 20  |
| Dibenz(a,h)anthracene      | 2000  | 0                | 1900   | ug/Kg | 95  |             | 5   |             | 45  | 134            | 20  |
| Benzo(g,h,i)perylene       | 2000  | 0                | 1800   | ug/Kg | 90  |             | 0   |             | 43  | 134            | 20  |
| 1,2,4,5-Tetrachlorobenzene | 2000  | 0                | 1800   | ug/Kg | 90  |             | 0   |             | 37  | 119            | 20  |
| 1,4-Dioxane                | 2000  | 0                | 1500   | ug/Kg | 75  |             | 7   |             | 70  | 130            | 20  |
| 2,3,4,6-Tetrachlorophenol  | 2000  | 0                | 2000   | ug/Kg | 100 |             | 11  |             | 44  | 125            | 20  |