

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q2820

**Analytical Method:** SW8270E

**Client:** First Environment, Inc.

**DataFile:** BP025516.D

| Parameter                   | Spike             | Sample Result            | Result          | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|-----------------------------|-------------------|--------------------------|-----------------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q2819-03MS</b> | <b>Client Sample ID:</b> | <b>22BP-WMS</b> |       |     |          |     |          |     |             |     |
| Benzaldehyde                | 1900              | 0                        | 1100            | ug/Kg | 58  |          |     |          | 10  | 161         |     |
| Phenol                      | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 34  | 121         |     |
| bis(2-Chloroethyl)ether     | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 31  | 120         |     |
| 2-Chlorophenol              | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 34  | 121         |     |
| 2-Methylphenol              | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 32  | 122         |     |
| 2,2-oxybis(1-Chloropropane) | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 33  | 131         |     |
| Acetophenone                | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 33  | 115         |     |
| 3+4-Methylphenols           | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 34  | 119         |     |
| N-Nitroso-di-n-propylamine  | 1900              | 0                        | 1700            | ug/Kg | 89  |          |     |          | 36  | 120         |     |
| Hexachloroethane            | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 28  | 117         |     |
| Nitrobenzene                | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 34  | 122         |     |
| Isophorone                  | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 30  | 122         |     |
| 2-Nitrophenol               | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 36  | 123         |     |
| 2,4-Dimethylphenol          | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 30  | 127         |     |
| bis(2-Chloroethoxy)methane  | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 36  | 121         |     |
| 2,4-Dichlorophenol          | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 40  | 122         |     |
| Naphthalene                 | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 35  | 123         |     |
| 4-Chloroaniline             | 1900              | 0                        | 960             | ug/Kg | 51  |          |     |          | 17  | 106         |     |
| Hexachlorobutadiene         | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 32  | 123         |     |
| Caprolactam                 | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 46  | 117         |     |
| 4-Chloro-3-methylphenol     | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 45  | 122         |     |
| 2-Methylnaphthalene         | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 38  | 122         |     |
| Hexachlorocyclopentadiene   | 3900              | 0                        | 3500            | ug/Kg | 90  |          |     |          | 43  | 112         |     |
| 2,4,6-Trichlorophenol       | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 39  | 126         |     |
| 2,4,5-Trichlorophenol       | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 41  | 124         |     |
| 1,1-Biphenyl                | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 40  | 117         |     |
| 2-Chloronaphthalene         | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 41  | 114         |     |
| 2-Nitroaniline              | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 44  | 127         |     |
| Dimethylphthalate           | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 48  | 124         |     |
| Acenaphthylene              | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 32  | 132         |     |
| 2,6-Dinitrotoluene          | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 46  | 124         |     |
| 3-Nitroaniline              | 1900              | 0                        | 1300            | ug/Kg | 68  |          |     |          | 33  | 119         |     |
| Acenaphthene                | 1900              | 0                        | 1700            | ug/Kg | 89  |          |     |          | 40  | 123         |     |
| 2,4-Dinitrophenol           | 3900              | 0                        | 4500            | ug/Kg | 115 |          |     |          | 15  | 130         |     |
| 4-Nitrophenol               | 3900              | 0                        | 3900            | ug/Kg | 100 |          |     |          | 30  | 132         |     |
| Dibenzofuran                | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 44  | 120         |     |
| 2,4-Dinitrotoluene          | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 48  | 126         |     |
| Diethylphthalate            | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 50  | 124         |     |
| 4-Chlorophenyl-phenylether  | 1900              | 0                        | 1700            | ug/Kg | 89  |          |     |          | 45  | 121         |     |
| Fluorene                    | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 43  | 125         |     |
| 4-Nitroaniline              | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 35  | 115         |     |
| 4,6-Dinitro-2-methylphenol  | 1900              | 0                        | 2000            | ug/Kg | 105 |          |     |          | 29  | 132         |     |
| N-Nitrosodiphenylamine      | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 38  | 127         |     |
| 4-Bromophenyl-phenylether   | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 46  | 124         |     |
| Hexachlorobenzene           | 1900              | 0                        | 1800            | ug/Kg | 95  |          |     |          | 45  | 122         |     |
| Atrazine                    | 1900              | 0                        | 1900            | ug/Kg | 100 |          |     |          | 47  | 127         |     |

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**Analytical Method:** SW8270E

**Client:** First Environment, Inc.

**DataFile:** BP025516.D

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 3900  | 0                | 3900   | ug/Kg | 100 |             |     |             | 25  | 133            |     |
| Phenanthrene               | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 50  | 121            |     |
| Anthracene                 | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 47  | 123            |     |
| Carbazole                  | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 50  | 123            |     |
| Di-n-butylphthalate        | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 51  | 128            |     |
| Fluoranthene               | 1900  | 0                | 1700   | ug/Kg | 89  |             |     |             | 50  | 127            |     |
| Pyrene                     | 1900  | 0                | 2100   | ug/Kg | 111 |             |     |             | 47  | 127            |     |
| Butylbenzylphthalate       | 1900  | 0                | 2100   | ug/Kg | 111 |             |     |             | 48  | 132            |     |
| 3,3-Dichlorobenzidine      | 1900  | 0                | 1300   | ug/Kg | 68  |             |     |             | 22  | 121            |     |
| Benzo(a)anthracene         | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 49  | 126            |     |
| Chrysene                   | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 50  | 124            |     |
| bis(2-Ethylhexyl)phthalate | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 51  | 133            |     |
| Di-n-octyl phthalate       | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 45  | 140            |     |
| Benzo(b)fluoranthene       | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 45  | 132            |     |
| Benzo(k)fluoranthene       | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 47  | 132            |     |
| Benzo(a)pyrene             | 1900  | 0                | 1800   | ug/Kg | 95  |             |     |             | 45  | 129            |     |
| Indeno(1,2,3-cd)pyrene     | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 45  | 133            |     |
| Dibenz(a,h)anthracene      | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 45  | 134            |     |
| Benzo(g,h,i)perylene       | 1900  | 0                | 1900   | ug/Kg | 100 |             |     |             | 43  | 134            |     |
| 1,2,4,5-Tetrachlorobenzene | 1900  | 0                | 1700   | ug/Kg | 89  |             |     |             | 37  | 119            |     |
| 1,4-Dioxane                | 1900  | 0                | 1500   | ug/Kg | 79  |             |     |             | 70  | 130            |     |
| 2,3,4,6-Tetrachlorophenol  | 1900  | 0                | 2000   | ug/Kg | 105 |             |     |             | 44  | 125            |     |