

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3266

**Analytical Method:** SW8270E

**Client:** CDM Smith

**DataFile:** BF143865.D

| Parameter                   | Spike              | Sample Result            | Result              | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|-----------------------------|--------------------|--------------------------|---------------------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q3266-01MSD</b> | <b>Client Sample ID:</b> | <b>ENV-3-6FTMSD</b> |       |     |          |     |          |     |             |     |
| Benzaldehyde                | 4100               | 0                        | 2200                | ug/Kg | 54  |          | 9   |          | 10  | 171         | 20  |
| Phenol                      | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 9   |          | 51  | 122         | 20  |
| bis(2-Chloroethyl)ether     | 4100               | 0                        | 3500                | ug/Kg | 85  |          | 9   |          | 54  | 125         | 20  |
| 2-Chlorophenol              | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 11  |          | 51  | 121         | 20  |
| 2-Methylphenol              | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 9   |          | 47  | 125         | 20  |
| 2,2-oxybis(1-Chloropropane) | 4100               | 0                        | 3000                | ug/Kg | 73  |          | 7   |          | 46  | 119         | 20  |
| Acetophenone                | 4100               | 0                        | 3900                | ug/Kg | 95  |          | 7   |          | 55  | 128         | 20  |
| 3+4-Methylphenols           | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 8   |          | 49  | 125         | 20  |
| N-Nitroso-di-n-propylamine  | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 8   |          | 59  | 119         | 20  |
| Hexachloroethane            | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 6   |          | 51  | 116         | 20  |
| Nitrobenzene                | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 9   |          | 47  | 124         | 20  |
| Isophorone                  | 4100               | 0                        | 3800                | ug/Kg | 93  |          | 7   |          | 49  | 127         | 20  |
| 2-Nitrophenol               | 4100               | 0                        | 4300                | ug/Kg | 105 |          | 5   |          | 43  | 131         | 20  |
| 2,4-Dimethylphenol          | 4100               | 0                        | 4000                | ug/Kg | 98  |          | 7   |          | 63  | 151         | 20  |
| bis(2-Chloroethoxy)methane  | 4100               | 0                        | 3500                | ug/Kg | 85  |          | 9   |          | 51  | 119         | 20  |
| 2,4-Dichlorophenol          | 4100               | 0                        | 3800                | ug/Kg | 93  |          | 5   |          | 50  | 122         | 20  |
| Naphthalene                 | 4100               | 0                        | 3500                | ug/Kg | 85  |          | 9   |          | 51  | 121         | 20  |
| 4-Chloroaniline             | 4100               | 0                        | 1300                | ug/Kg | 32  |          | 0   |          | 10  | 100         | 20  |
| Hexachlorobutadiene         | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 5   |          | 44  | 126         | 20  |
| Caprolactam                 | 4100               | 0                        | 4600                | ug/Kg | 112 |          | 9   |          | 51  | 134         | 20  |
| 4-Chloro-3-methylphenol     | 4100               | 0                        | 4000                | ug/Kg | 98  |          | 7   |          | 57  | 132         | 20  |
| 2-Methylnaphthalene         | 4100               | 0                        | 3400                | ug/Kg | 83  |          | 8   |          | 59  | 123         | 20  |
| Hexachlorocyclopentadiene   | 8300               | 0                        | 8300                | ug/Kg | 100 |          | 5   |          | 10  | 175         | 20  |
| 2,4,6-Trichlorophenol       | 4100               | 0                        | 3900                | ug/Kg | 95  |          | 5   |          | 33  | 141         | 20  |
| 2,4,5-Trichlorophenol       | 4100               | 0                        | 3800                | ug/Kg | 93  |          | 7   |          | 38  | 135         | 20  |
| 1,1-Biphenyl                | 4100               | 0                        | 3800                | ug/Kg | 93  |          | 7   |          | 55  | 131         | 20  |
| 2-Chloronaphthalene         | 4100               | 0                        | 3400                | ug/Kg | 83  |          | 8   |          | 48  | 124         | 20  |
| 2-Nitroaniline              | 4100               | 0                        | 4400                | ug/Kg | 107 |          | 5   |          | 47  | 134         | 20  |
| Dimethylphthalate           | 4100               | 0                        | 3900                | ug/Kg | 95  |          | 5   |          | 54  | 120         | 20  |
| Acenaphthylene              | 4100               | 0                        | 4100                | ug/Kg | 100 |          | 7   |          | 57  | 125         | 20  |
| 2,6-Dinitrotoluene          | 4100               | 0                        | 5000                | ug/Kg | 122 |          | 8   |          | 48  | 127         | 20  |
| 3-Nitroaniline              | 4100               | 0                        | 2500                | ug/Kg | 61  |          | 3   |          | 10  | 112         | 20  |
| Acenaphthene                | 4100               | 0                        | 3800                | ug/Kg | 93  |          | 5   |          | 70  | 121         | 20  |
| 2,4-Dinitrophenol           | 8300               | 0                        | 8300                | ug/Kg | 100 |          | 0   |          | 10  | 155         | 20  |
| 4-Nitrophenol               | 8300               | 0                        | 7800                | ug/Kg | 94  |          | 6   |          | 10  | 175         | 20  |
| Dibenzofuran                | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 8   |          | 52  | 114         | 20  |
| 2,4-Dinitrotoluene          | 4100               | 0                        | 4500                | ug/Kg | 110 |          | 6   |          | 41  | 140         | 20  |
| Diethylphthalate            | 4100               | 0                        | 3900                | ug/Kg | 95  |          | 7   |          | 51  | 119         | 20  |
| 4-Chlorophenyl-phenylether  | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 9   |          | 48  | 122         | 20  |
| Fluorene                    | 4100               | 0                        | 3700                | ug/Kg | 90  |          | 9   |          | 53  | 118         | 20  |
| 4-Nitroaniline              | 4100               | 0                        | 4400                | ug/Kg | 107 |          | 9   |          | 29  | 140         | 20  |
| 4,6-Dinitro-2-methylphenol  | 4100               | 0                        | 4800                | ug/Kg | 117 |          | 6   |          | 10  | 160         | 20  |
| N-Nitrosodiphenylamine      | 4100               | 0                        | 3600                | ug/Kg | 88  |          | 8   |          | 73  | 118         | 20  |
| 4-Bromophenyl-phenylether   | 4100               | 0                        | 3500                | ug/Kg | 85  |          | 9   |          | 65  | 121         | 20  |
| Hexachlorobenzene           | 4100               | 0                        | 3100                | ug/Kg | 76  |          | 5   |          | 67  | 118         | 20  |
| Atrazine                    | 4100               | 0                        | 4100                | ug/Kg | 100 |          | 7   |          | 45  | 175         | 20  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3266

**Analytical Method:** SW8270E

**Client:** CDM Smith

**DataFile:** BF143865.D

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 8300  | 0                | 6900   | ug/Kg | 83  |             | 8   |             | 13  | 153            | 20  |
| Phenanthrene               | 4100  | 0                | 3600   | ug/Kg | 88  |             | 6   |             | 52  | 128            | 20  |
| Anthracene                 | 4100  | 0                | 3600   | ug/Kg | 88  |             | 8   |             | 62  | 124            | 20  |
| Carbazole                  | 4100  | 0                | 3600   | ug/Kg | 88  |             | 8   |             | 59  | 119            | 20  |
| Di-n-butylphthalate        | 4100  | 0                | 3800   | ug/Kg | 93  |             | 7   |             | 55  | 125            | 20  |
| Fluoranthene               | 4100  | 0                | 3500   | ug/Kg | 85  |             | 7   |             | 44  | 125            | 20  |
| Pyrene                     | 4100  | 0                | 4700   | ug/Kg | 115 |             | 5   |             | 37  | 122            | 20  |
| Butylbenzylphthalate       | 4100  | 0                | 5000   | ug/Kg | 122 |             | 6   |             | 44  | 135            | 20  |
| 3,3-Dichlorobenzidine      | 4100  | 0                | 1700   | ug/Kg | 41  |             | 11  |             | 15  | 112            | 20  |
| Benzo(a)anthracene         | 4100  | 0                | 3800   | ug/Kg | 93  |             | 9   |             | 53  | 119            | 20  |
| Chrysene                   | 4100  | 0                | 4000   | ug/Kg | 98  |             | 4   |             | 57  | 121            | 20  |
| bis(2-Ethylhexyl)phthalate | 4100  | 0                | 4000   | ug/Kg | 98  |             | 7   |             | 42  | 169            | 20  |
| Di-n-octyl phthalate       | 4100  | 0                | 3700   | ug/Kg | 90  |             | 9   |             | 51  | 156            | 20  |
| Benzo(b)fluoranthene       | 4100  | 0                | 4000   | ug/Kg | 98  |             | 3   |             | 52  | 117            | 20  |
| Benzo(k)fluoranthene       | 4100  | 0                | 3500   | ug/Kg | 85  |             | 3   |             | 57  | 134            | 20  |
| Benzo(a)pyrene             | 4100  | 0                | 4000   | ug/Kg | 98  |             | 7   |             | 70  | 142            | 20  |
| Indeno(1,2,3-cd)pyrene     | 4100  | 0                | 3700   | ug/Kg | 90  |             | 11  |             | 40  | 129            | 20  |
| Dibenz(a,h)anthracene      | 4100  | 0                | 3600   | ug/Kg | 88  |             | 11  |             | 43  | 123            | 20  |
| Benzo(g,h,i)perylene       | 4100  | 0                | 3900   | ug/Kg | 95  |             | 7   |             | 24  | 125            | 20  |
| 1,2,4,5-Tetrachlorobenzene | 4100  | 0                | 3800   | ug/Kg | 93  |             | 7   |             | 52  | 134            | 20  |
| 1,4-Dioxane                | 4100  | 0                | 3100   | ug/Kg | 76  |             | 9   |             | 46  | 112            | 20  |
| 2,3,4,6-Tetrachlorophenol  | 4100  | 0                | 4300   | ug/Kg | 105 |             | 6   |             | 24  | 146            | 20  |