

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

|                 |                  |                           |                   |
|-----------------|------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2484</u>     | <b>Analytical Method:</b> | <u>8081B</u>      |
| <b>Client:</b>  | <u>CDM Smith</u> | <b>DataFile :</b>         | <u>PD089308.D</u> |

|                | Parameter                 | Spike             | Sample       |      | Units | Rec | Rec  | RPD |      | Limits |      |     |
|----------------|---------------------------|-------------------|--------------|------|-------|-----|------|-----|------|--------|------|-----|
|                |                           |                   | Result       |      |       |     | Qual | RPD | Qual | Low    | High | RPD |
| Lab Sample ID: | Q2475-01MSD<br>(Column 1) | Client Sample ID: | SOIL-PILEMSD |      |       |     |      |     |      |        |      |     |
|                | alpha-BHC                 | 20.89             | 0            | 18.7 | ug/kg | 90  |      | 1   |      | 60     | 144  | 20  |
|                | beta-BHC                  | 20.89             | 0            | 15.3 | ug/kg | 73  |      | 1   |      | 54     | 143  | 20  |
|                | delta-BHC                 | 20.89             | 0            | 20.0 | ug/kg | 96  |      | 1   |      | 29     | 151  | 20  |
|                | gamma-BHC (Lindane)       | 20.89             | 0            | 19.8 | ug/kg | 95  |      | 2   |      | 61     | 140  | 20  |
|                | Heptachlor                | 20.89             | 0            | 18.4 | ug/kg | 88  |      | 4   |      | 63     | 135  | 20  |
|                | Aldrin                    | 20.89             | 0            | 19.3 | ug/kg | 92  |      | 3   |      | 49     | 139  | 20  |
|                | Heptachlor epoxide        | 20.89             | 0            | 18.2 | ug/kg | 87  |      | 1   |      | 41     | 156  | 20  |
|                | Endosulfan I              | 20.89             | 0            | 20.1 | ug/kg | 96  |      | 0   |      | 56     | 142  | 20  |
|                | Dieldrin                  | 20.89             | 0.42         | 18.4 | ug/kg | 92  |      | 1   |      | 47     | 161  | 20  |
|                | 4,4'-DDE                  | 20.89             | 0            | 15.0 | ug/kg | 72  |      | 1   |      | 55     | 136  | 20  |
|                | Endrin                    | 20.89             | 0            | 17.8 | ug/kg | 85  |      | 2   |      | 57     | 139  | 20  |
|                | Endosulfan II             | 20.89             | 0            | 17.7 | ug/kg | 85  |      | 1   |      | 40     | 163  | 20  |
|                | 4,4'-DDD                  | 20.89             | 0            | 21.4 | ug/kg | 102 |      | 2   |      | 47     | 163  | 20  |
|                | Endosulfan sulfate        | 20.89             | 0            | 17.3 | ug/kg | 83  |      | 1   |      | 62     | 139  | 20  |
|                | 4,4'-DDT                  | 20.89             | 0.37         | 16.2 | ug/kg | 74  |      | 8   |      | 51     | 146  | 20  |
|                | Methoxychlor              | 20.89             | 0            | 15.9 | ug/kg | 76  |      | 3   |      | 54     | 136  | 20  |
|                | Endrin ketone             | 20.89             | 0            | 17.3 | ug/kg | 83  |      | 1   |      | 60     | 129  | 20  |
|                | Endrin aldehyde           | 20.89             | 0            | 18.0 | ug/kg | 86  |      | 2   |      | 59     | 132  | 20  |
|                | alpha-Chlordane           | 20.89             | 4.4          | 22.2 | ug/kg | 85  |      | 2   |      | 39     | 166  | 20  |
|                | gamma-Chlordane           | 20.89             | 1.9          | 19.3 | ug/kg | 83  |      | 12  |      | 44     | 175  | 20  |
| Lab Sample ID: | Q2475-01MSD<br>(Column 2) | Client Sample ID: | SOIL-PILEMSD |      |       |     |      |     |      |        |      |     |
|                | alpha-BHC                 | 20.89             | 0            | 18.7 | ug/kg | 90  |      | 0   |      | 60     | 144  | 20  |
|                | beta-BHC                  | 20.89             | 0            | 20.4 | ug/kg | 98  |      | 0   |      | 54     | 143  | 20  |
|                | delta-BHC                 | 20.89             | 0            | 18.5 | ug/kg | 89  |      | 0   |      | 29     | 151  | 20  |
|                | gamma-BHC (Lindane)       | 20.89             | 0            | 18.7 | ug/kg | 90  |      | 0   |      | 61     | 140  | 20  |
|                | Heptachlor                | 20.89             | 0            | 18.2 | ug/kg | 87  |      | 4   |      | 63     | 135  | 20  |
|                | Aldrin                    | 20.89             | 0            | 18.5 | ug/kg | 89  |      | 0   |      | 49     | 139  | 20  |
|                | Heptachlor epoxide        | 20.89             | 0            | 20.3 | ug/kg | 97  |      | 0   |      | 41     | 156  | 20  |
|                | Endosulfan I              | 20.89             | 0            | 20.2 | ug/kg | 97  |      | 1   |      | 56     | 142  | 20  |
|                | Dieldrin                  | 20.89             | 1.6          | 20.9 | ug/kg | 100 |      | 0   |      | 47     | 161  | 20  |
|                | 4,4'-DDE                  | 20.89             | 0            | 19.1 | ug/kg | 91  |      | 1   |      | 55     | 136  | 20  |
|                | Endrin                    | 20.89             | 0            | 18.7 | ug/kg | 90  |      | 1   |      | 57     | 139  | 20  |
|                | Endosulfan II             | 20.89             | 0            | 18.4 | ug/kg | 88  |      | 1   |      | 40     | 163  | 20  |
|                | 4,4'-DDD                  | 20.89             | 0            | 16.3 | ug/kg | 78  |      | 0   |      | 47     | 163  | 20  |
|                | Endosulfan sulfate        | 20.89             | 0            | 16.9 | ug/kg | 81  |      | 1   |      | 62     | 139  | 20  |

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| <b>SDG No.:</b> | <u>Q2484</u>     | <b>Analytical Method:</b> | <u>8081B</u>      |
| <b>Client:</b>  | <u>CDM Smith</u> | <b>DataFile :</b>         | <u>PD089308.D</u> |

| Parameter       | Spike | Sample |        | Units | Rec | Rec  |     | RPD  |     | Limits |     |
|-----------------|-------|--------|--------|-------|-----|------|-----|------|-----|--------|-----|
|                 |       | Result | Result |       |     | Qual | RPD | Qual | Low | High   | RPD |
| 4,4'-DDT        | 20.89 | 0.77   | 15.8   | ug/kg | 76  |      | 5   |      | 51  | 146    | 20  |
| Methoxychlor    | 20.89 | 0      | 14.3   | ug/kg | 68  |      | 4   |      | 54  | 136    | 20  |
| Endrin ketone   | 20.89 | 0      | 15.9   | ug/kg | 76  |      | 1   |      | 60  | 129    | 20  |
| Endrin aldehyde | 20.89 | 0      | 17.8   | ug/kg | 85  |      | 5   |      | 59  | 132    | 20  |
| alpha-Chlordane | 20.89 | 2.1    | 21.9   | ug/kg | 105 |      | 0   |      | 39  | 166    | 20  |
| gamma-Chlordane | 20.89 | 1.2    | 18.6   | ug/kg | 89  |      | 4   |      | 44  | 175    | 20  |