

**SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

|                    |                    |                  |                               |                                                          |
|--------------------|--------------------|------------------|-------------------------------|----------------------------------------------------------|
| <b>Lab Name:</b>   | <u>Chemtech</u>    | <b>Client:</b>   | <u>Earth Engineering Inc.</u> |                                                          |
| <b>Lab Code:</b>   | <u>CHEM</u>        | <b>Cas No:</b>   | <u>Q2392</u>                  | <b>SAS No :</b> <u>Q2392</u> <b>SDG No:</b> <u>Q2392</u> |
| <b>Sample No :</b> | <u>Q2392-01MSD</u> | <b>Datafile:</b> | <u>FC069284.D</u>             | <b>Client ID :</b> <u>S-1MSD</u>                         |

| COMPOUND          | SPIKE<br>ADDED<br>mg/kg | SAMPLE<br>CONCENTRATION<br>mg/kg | MS/MSD<br>CONCENTRATION<br>mg/kg | % REC | Qual | RPD   QC LIMITS QC Limit Of<br>RPD |
|-------------------|-------------------------|----------------------------------|----------------------------------|-------|------|------------------------------------|
| Aliphatic C9-C12  | 10.8                    | 0.40                             | 5.40                             | 46    |      | 0.86   (40-140) 50                 |
| Aliphatic C12-C16 | 7.2                     | 0.51                             | 4.98                             | 62    |      | 0.64   (40-140) 50                 |
| Aliphatic C16-C21 | 10.8                    | 0.55                             | 7.63                             | 66    |      | 25.8   (40-140) 50                 |
| Aliphatic C21-C28 | 14.4                    | 0                                | 10.1                             | 70    |      | 0.85   (40-140) 50                 |
| Aliphatic C28-C40 | 21.6                    | 2.08                             | 19.9                             | 82    |      | 0.24   (40-140) 50                 |

| COMPOUND                     | SPIKE<br>ADDED<br>mg/kg | SAMPLE<br>CONCENTRATION<br>mg/kg | MS/MSD<br>CONCENTRATION<br>mg/kg | % REC | Qual | RPD   QC LIMITS QC Limit<br>Of RPD |
|------------------------------|-------------------------|----------------------------------|----------------------------------|-------|------|------------------------------------|
| n-Nonane (C9)                | 3.6                     | 0.0000                           | 1.3885                           | 39    | *    | 2.6   (40-140) 50                  |
| n-Decane (C10)               | 3.6                     | 0.0000                           | 1.7259                           | 48    |      | 2.11   (40-140) 50                 |
| Naphthalene (C11.7)          | 3.6                     | 0.0000                           | 0.0362                           | 1     | *    | 0   (40-140) 50                    |
| n-Dodecane (C12)             | 3.6                     | 0.0000                           | 1.8776                           | 52    |      | 0   (40-140) 50                    |
| 2-methylnaphthalene (C12.89) | 3.6                     | 0.0000                           | 0.0227                           | 1     | *    | 0   (40-140) 50                    |
| n-Tetradecane (C14)          | 3.6                     | 0.0000                           | 2.0934                           | 58    |      | 0   (40-140) 50                    |
| n-Hexadecane (C16)           | 3.6                     | 0.0000                           | 2.2299                           | 62    |      | 0   (40-140) 50                    |
| n-Octadecane (C18)           | 3.6                     | 0.0000                           | 2.3062                           | 64    |      | 0   (40-140) 50                    |
| n-Eicosane (C20)             | 3.6                     | 0.0000                           | 2.4703                           | 69    |      | 0   (40-140) 50                    |
| n-Heneicosane (C21)          | 3.6                     | 0.0000                           | 2.4254                           | 67    |      | 1.48   (40-140) 50                 |
| n-Docosane (C22)             | 3.6                     | 0.0000                           | 2.4239                           | 67    |      | 1.48   (40-140) 50                 |
| n-Tetracosane (C24)          | 7.2                     | 0.0000                           | 2.4399                           | 34    | *    | 0   (40-140) 50                    |
| n-Hexacosane (C26)           | 3.6                     | 0.0000                           | 2.4323                           | 68    |      | 0   (40-140) 50                    |
| n-Octacosane (C28)           | 3.6                     | 0.0000                           | 2.4356                           | 68    |      | 0   (40-140) 50                    |
| n-Tricontane (C30)           | 3.6                     | 0.0000                           | 2.4501                           | 68    |      | 0   (40-140) 50                    |
| n-Dotriacontane (C32)        | 3.6                     | 0.0000                           | 2.5375                           | 70    |      | 1.42   (40-140) 50                 |
| n-Tetratriacontane (C34)     | 3.6                     | 0.0000                           | 2.8408                           | 79    |      | 1.26   (40-140) 50                 |
| n-Hexatriacontane (C36)      | 3.6                     | 0.0000                           | 3.3286                           | 92    |      | 1.08   (40-140) 50                 |
| n-Octatriacontane (C38)      | 3.6                     | 0.0000                           | 3.6972                           | 103   |      | 0.97   (40-140) 50                 |
| n-Tetracontane (C40)         | 3.6                     | 0.0000                           | 3.7390                           | 104   |      | 0.96   (40-140) 50                 |