**Supplemental Table S4**. Bi-variate correlations among physical-chemical properties of archived soil samples.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Total cobalt | Total chromium | Total copper | Total nickel | Total Lead | Extract. zinc | Extract. iron |
| Sand | -.053 | -.205 | -.018 | -.006 | -.167 | -.008 | -.128 |
| Silt | -.099 | .241 | .022 | .079 | .311\*\* | -.212 | -.304\*\* |
| Clay | .107 | .262\* | .102 | .151 | -.025 | -.150 | .101 |
| Ash | -.305\*\* | -.072 | -.194 | -.149 | .057 | -.354\*\* | -.206 |
| pH | -.063 | .167 | .033 | -.076 | .054 | -.409\*\*\* | -.165 |
| Phosphorus,  total | .371\*\* | .208 | .183 | .290\* | -.035 | -.208 | .387\*\*\* |
| Carbon, organic | .324\*\* | -.007 | .211 | .157 | -.099 | .398\*\*\* | .119 |
| Cobalt, total | - | .333\*\* | .821\*\*\* | .741\*\*\* | .080 | -.067 | .207 |
| Chromium,  total | .333\*\* | - | .565\*\*\* | .463\*\*\* | -.011 | -.120 | .225 |
| Copper, total | .821\*\*\* | .565\*\*\* |  - | .737\*\*\* | .071 | -.124 | .240 |
| Nickel, total | .741\*\*\* | .463\*\*\* | .737\*\*\* |  - | .321\*\* | -.018 | .279\* |
| Lead, total | .080 | -.011 | .071 | .321\*\* |  - | -.008 | .099 |
| Zinc,extractable | -.067 | -.120 | -.124 | -.018 | -.008 |  - | -.046 |
| Iron, extractable | .207 | .225 | .240 | .279\* | .099 | -.046 |  - |

|  |  |
| --- | --- |
| **\*** | Significant at *P* < 0.100 level ( = 10%). |
| **\*\*** | Significant at *P* < 0.050 level ( = 5%). |
| **\*\*\*** | Significant at *P* < 0.010 level ( = 1%). |