



Supplementary Materials

Discontinuous Geochemical Monitoring of the Galleria Italia Circumneutral Waters (Former Hg-Mining Area of Abbadia San Salvatore, Tuscany, Central Italy) Feeding the Fosso Della Chiusa Creek

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 $\textbf{Table S1.}. \ Description of QA/QC, the criterion of acceptability and the frequency adopted during the analysis of this work.$

| QA/QC Protocol | Acceptability Criterion | Measurement Frequency |
|---|--|--|
| Instrument Detection Limits (IDLs) | < LLOQ (lower limit of quantitation) | At least once when a new instrumentation is set up, after instrumental maintenance and/or according to the QC protocol |
| Method blank | < ½LLOQ | For each batch of samples and when the reactants are changed |
| Linear range | Within 10% | For each analytical sequence |
| Matrix spike, Matrix spike | Within ± 25%. RPD precision < 20% | For each analytical sequence and at least every 20 samples |
| Laboratory control sample (LCS) | Within 20% | For each analytical sequence and at least every 20 samples |
| Lower limit of quantitation check sample (LLOQ) | Within ± 35%. RSD precision < 20% | Every 3 months |
| Spectral interference check solution (SIC) | Unspiked elements are to be <2xLLOO | To be read at the beginning of each analytical batch and every 12 h when the instrument is used continuously |
| Internal Standard | <30% | it when the histrament is used continuously |
| Calibration blank (ICB/CCB) | ICB≤LLOQ CCB <lloq< td=""><td>ICB = initial calibration blank to be analyzed after the calibration curve. CCB = continuing calibration blank to be read every 10 samples and at the end of each batch of samples.</td></lloq<> | ICB = initial calibration blank to be analyzed after the calibration curve. CCB = continuing calibration blank to be read every 10 samples and at the end of each batch of samples. |
| Initial calibration verification/Continuing cal bration verification standard (ICV/CCV) | - Within ± 10% with respect to the real value | Every 10 samples and at the end of each batch of samples. |