**QAPP Worksheet #28: Analytical Quality Control and Corrective Action**

**(UFP-QAPP Manual Section 3.4 and Tables 4, 5, and 6)**

**(EPA 2106-G-05 Section 2.3.5)**

The purpose of this worksheet is to ensure that the selected analytical methods are capable of meeting project-specific MPC, which are based on PQOs/DQOs). Complete a separate worksheet for each sampling technique, analytical method/SOP, matrix, and analytical group. If method/SOP QC acceptance criteria do not meet the project-specific MPC, the data obtained may be unusable for making reliable project decisions. In this case the project team should consider selecting an alternate method or modifying the method. The list of QC samples in this example is incomplete. See Section 2.2 of Part 2B of the UFP-QAPP QA/QC Compendium, the QA Matrix in Section 3.4, and Tables 4, 5, and 6 for further information and guidance on QC samples.

Matrix: Soil

Analytical Group: Metals

Analytical Method/SOP: SW-846 6020A/SOP#BR549

| **QC Sample** | **Number/Frequency** | **Method/SOP Acceptance Criteria** | **Corrective Action** | **Title/position of person responsible for corrective action** | **Project-Specific MPC** |
| --- | --- | --- | --- | --- | --- |
| Method Blank | 1 per prep. batch of up to 20 samples. | No analytes detected > ½ reporting limit (RL), 1/10 the amount measured in any sample, or 1/10 the regulatory limit, whichever is greater. | Reprep and reanalyze the method blank and all samples processed with the contaminated blank. If problem persists, call PM. | Analyst / Laboratory Quality Assurance Officer | All analytes in the method blank must be less than ½ the RL or 1/5 of the PAL’s on WS#15, whichever is greater |
| LCS containing all analytes | One per preparatory batch of up  to 20 samples. | QC acceptance criteria specified in DoD QSM v4.2, if available.  Otherwise use in-house limits. | Correct problem, reprep and reanalyze LCS and all samples in associated batch for failed analytes. If problem persists, call PM. | Analyst / Laboratory Quality Assurance Officer | All analytes in samples found to be within +/- 20% of the PAL’s on WS#15 MUST pass method/SOP criteria. |