Appendix I-2

Data Usability Evaluation Worksheet

**Project Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Laboratory:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sample Delivery Group:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sample Delivery Group Number:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date Samples Collected:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Reviewer:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| **Describe the intended use of the data:** |

|  |  |
| --- | --- |
| **Nonconformance**  **DQA Review Elements** | **Briefly Summarize DQA Nonconformances** |
| **Laboratory Report Inspection** |  |
| **Reasonable Confidence Evaluation** |  |
| **Chain of Custody Evaluation** |  |
| **Sample Result Evaluation** |  |
| **Sample Preservation and Holding Time Evaluation** |  |
| **Blank Evaluation** |  |
| **Laboratory Control Samples and Laboratory Control Sample Duplicates** |  |
| **Surrogates** |  |
| **Site Specific Matrix Spikes and Matrix Spike Duplicates** |  |
| **Tentatively Identified Compounds** |  |
| **Other QC data** |  |

Appendix I-2 (continued)  
Data Usability Evaluation Worksheet

|  |
| --- |
| Provide a summary statement describing how the analytical data set relied upon is of adequate quality and of sufficient accuracy, precision, and sensitivity for the intended purpose. Questions for the EP to consider during the DUE include, but are not limited to, the following, please see the text of this guidance for additional information:  **How will the analytical data be used**:   * Will the analytical results be used to determine compliance with RSR criteria? * Will be analytical results be used to determine a release has occurred? * Will remediation be conducted? * Has remediation been conducted? * Are the results going to be used to guide further investigation? * Are the results going to be used to guide further remediation (including monitored natural attention of groundwater)? * Evaluate seasonal variability, or homogeneity in an environmental sample?   **Laboratory QC Information**   * Are significant QC variances reported? * Are the identified QC nonconformances related to results for substances that are reported as “ND,” and the reporting limits are significantly less than RSR criteria? * Are the nonconformances related to poorly performing compounds that are not constituents of concern? * Are the nonconformances related substances that are not constituents of concern? * Is the reported bias high or low? For cases with low bias, are the results well below applicable RSR criteria or are they close to applicable RSR criteria? * How do the nonconformances effect “NDs” and reported concentrations?   **DQOs**   * Were the DQOs precision, accuracy, representativeness, comparability, completeness and sensitivity met? * Are all critical samples usable for the intended purpose(s)? * Does sample homogeneity or heterogeneity effect the representativeness of the samples?   **CSM**   * Do any analytical QC nonconformances create significant data gaps in the Conceptual Site Model? * Evaluate the entire body of information (type, amount, and quality data) available for the specific area/release for which the data are presumed to be representative. Determine whether any newer data corroborate the older results and whether both sets of data are consistent with the CSM. * Consider the risk of being wrong based on risk to potential receptors and the risk to human health and the environment. * Consider the source of data (e.g., whether the data were generated by the EP’s own firm or some other firm, the EP’s own involvement with the project, method of collection for the samples, and reporting methods by other firms/laboratories generating the data). Perform a critical review of these data to evaluate its reliability. * Consider any other site-specific factors.   **PRE RCP DATA -** See section 4.5 of this guidance document for information to consider. |