Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
			Project Planning			
Quality Assurance Project Planning (QAPP) Guidance	1	Region 1, EPA-NE Quality Assurance Project Plan Guidance	 Consistent application of QA activities in project planning and application Applied to EPA-lead and nonEPA-lead projects Specifies adherence to QA/R-5 Provide "fill in the blank" worksheets to facilitate preparation of QAPP 			Revision to older guidance under development, projected for completion early 1998.
DQO Summary Form	1	EPA-NE-DQO Summary Form	 Summarizes specific DQOs for each sampling event Copies required for the QAPP/SAP, RSCC/authorizing organization, and data validation report/Tier I cover letter 			Current form in use since 1996
Regional QA Manual	2	• Region 2 CERCLA QA Manual, Revised in 1989	Delineates Region specific requirements for each step in the data collection process Improves efficiency of project planning Improves efficiency of document review and approval Aids in obtaining data of known and documented quality Enhances the consistency of investigations at various sites	Increased costs associated with QA/QC implementation Only applicable to CERCLA Sites??(Clarificat ion needed)		Last revised in 1989, current plans are to produce another revision. Used for all CERCLA investigations? ??? Private and Feds???

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
			Project Planning, cont.			
Pre-QAPP Meetings - Region's policy to have pre-QAPP meeting for all sampling events before QAPP preparation. Meeting involves the lab, the state, Federal Facility representative and their contractor, and EPA site manager and support staff. Purpose of the meeting is to define project objectives and potential quality assurance problems.	5	Quality Assurance Management Plan for the Superfund Division	Clarifies project requirements and goals prior to sample collection Expedites the document approval process Saves time and money		Shorter QAPP review and approval process Region said it has the data but did not provide	In standard use since 1987
Regional Model QAPPs - Requires the use of a model QAPP format, including the use of a "document control format".	5	Yes, Regional policy	 Expedited QAPP approval process Ensures a consistent, complete document submitted for review Instituted mini-QAPPs for small, inhouse projects Describes how and when to use QAPP amendments and addenda Document control format allows revisions to be prepared, identified, and reviewed more efficiently 		Shorter QAPP review and approval process Region said it has the data but did not provide	In standard use since 1991

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
			Project Planning, cont.			
Regional Quality Management Plan	6	• Quality Management Plan for EPA, Region 6 (Q-96-039)	Establishes QA policy and program requirements for all environmental measurement projects in the Region Allows Region to make "good decisions"	Increased cost and time required to ensure Plan requirements are being implemented, periodically assessed, and improved		In standard use since February 1996
Technical Review of QAPPs	10	No	Region identifies QAPP expectations for the Federal Facility Field work cannot begin until EPA approves the QAPP			In standard use
			Data Generation			
Field audit procedures for sampling operations and field laboratories	1	 SOP for Technical System Audits, Rev. 0, 6/28/96 Low Stress (Low Flow) Purging and Sampling Procedures for the Collection of Ground Water Samples from Monitoring Wells, Rev. 2, 7/30/96 	 Ensures consistency of data quality from field component Reduces field error 			In standard use since 1990

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
			Data Generation, cont.			
Standard Field Analytical Procedures	1	SOP for Elemental Analysis Using the X- Met 920 Field X-Ray Fluorescence Analyzer, 10/29/96 Region 1, EPA-NE Immunoassay Guidelines for Planning Environmental Projects, 10/96 PCB Field Testing Analytical Methods for Soil and Sediment Samples, Rev. 3, 6/21/95	Ensures consistency of data quality from field sampling Promotes use of innovative technologies			In standard use since publication date of each document
Field Oversight - EPA Region 10 does field oversight during sampling events using oversight contractors and EPA personnel.	10	No.	Ensures consistency of data quality from filed sampling			Conducted on a "regular basis"
			Data Validation and Use			

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
Data Validation Guidelines (including the Quality System)	1	• Region 1, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, 12/96 revision	 Applies to all programs in Region Ensures consistency of data quality 			In standard use since 1988
		Dat	ta Validation and Use, cont.			
Data Validation Oversight and Method Modifications Program	1	• SOP for Data Validation of EPA/Region 1 Contractors, Rev. 2, 5/26/93	Promotes data quality by ensuring adherence to Regional data validation policy			In standard use since 1988
Tiered Data Validation	1	• Region 1 Tiered Organic and Inorganic Data Validation Guidelines, draft, July 1, 1993	Reduced data validation costs Tier II requires 50% less time than Tier III A Tier I completeness check requires even less time	Time savings dependent on case size and fraction		In standard use since July 1993
Electronic Data Validation	1	Guidance Document for Completing Region 1 Data Validation Utilizing CADRE Data Review, February 1995	Data validation performed electronically Reduced data validation costs	Only applicable to volatile and semivolatile organic CLP data		In standard use since February 1995

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
Data Validation Summary Report Region requires that a data validation summary be submitted with all reports (e.g., Remedial Investigations) at BRAC sites.	5	No	Determination whether data quality meets intended use Identification of uncertainties in the data Identification of lab problems	Federal Facility submittals are not always as detailed as the Regional example report		Under development, but has been instituted for 2 years?????

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
		Dat	ta Validation and Use, cont.			
Oversight of Data Validation - On a regular basis, EPA's contractors, and, at times, the EPA Regional QA office validate raw lab packages. When necessary, EPA will also re-review or perform oversight data validation on raw data packages originally validated by other government agencies or their contractors.	10	No	Provides a high level of assurance validation was done correctly	Increased cost and length of investigations		Performed on a regular or as needed basis
			Laboratory Evaluations			
Performance Evaluation (PE) Samples	1	 EPA Region 1 Performance Evaluation Program Guidance, July 1996 revision SOP for Using Organic and Inorganic PE Samples, 8/6/96 revision SOP for Using PE Samples in Analysis of Polychlorinated Di- Benzo-Dioxins, 6/22/93 revision 	Apply to all programs in the Region Potential cost savings if failed PE samples result in reduced payment or non-payment to laboratory	Limited range of PE samples available (in terms of matrices, analytes, and concentrations)		In standard use since July 1993

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
		La	boratory Evaluations, cont.			
PE Sample Database	1	• EPA Region 1 Performance Evaluation Program Guidance, July 1996 revision Not sure about this???????	 Provides data quality information on each sample batch Provides lab performance data 	Only contains lab performance data for labs that have analyzed Region 1 samples		In standard use since July 1993
Laboratory Prequalification for Analytical Services	1	 Region 1 Laboratory Pre-Qualification SOP, 3/94 Region 1 Laboratory Audit SOP, 3/94 	Method for evaluating lab qualifications and ensuring technical capability before obtaining analytical services			In standard use since March 1994
Laboratory Audits	1	• Standard Operating Procedure for Technical Systems Audits, Rev. 0, 6/28/96	Provides for assessment of lab capabilities for specific programs, projects, and/or methods			In standard use since 1988
Reduced Payment/Data Rejection	1	SOP for Submitting Data for Reduced Payment/Data Rejection, Sept. 9, 1991	Cost savings from reduced payments for poor data Means for rejecting unusable data			In standard use since 1991

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
Communication of Laboratory Problems - For BRAC sites, Region requests that the Federal Facility communicate lab problems during the process not after the fact.	5	No	EPA aware of lab problems earlier EPA can be involved in determining corrective actions and therefore reduce the need for re-sampling	Federal Facility does not always cooperate		Under development. Has been instituted for less than a year???

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
		La	boratory Evaluations, cont.			
Performance Evaluation Samples	10	No	Provides measure of lab performance	 PE samples can be time consuming and expensive only used if lab is to be used on a long-term basis 		Performed on a as requested or as needed basis
On-site Technical Lab Audits	10	No	Provides measure of lab performance	Not performed regularly due to time and expense involved Most labs not used on a long-term basis (used on an event by event basis), therefore preaward and ongoing lab audits become very expensive		Done on occasion, but not regularly
Split Sampling	10	No	Provides measure of lab performance			Done on a regular basis as deemed necessary by the EPA site manager

Practice Description	EPA Region	Is Practice Documented?	Benefits	Limitations	Measures of Success	Current Status
		Mi	iscellaneous Related Topics			
Sample Tracking Database	1	The Regional Sample Control Center Guidance for the CLP and Delivery of Analytical Services (DAS) Program for EPA-NE, July 1996 NESTS - current database CLPSTS - precursor database	Tracks samples from field collection through analysis and validation Includes QC information and validation tier	Does not include non-CLP samples collected by other Federal Agencies		
Quality Assurance Training	6	• Quality Management Plan, Region 6 (Q-96- 039) - Section 3, Personnel Qualifications and Training	 Provides training to EPA personnel on Regional QA policies Four different training courses depending on individual's involvement in the QA program 			Required for Regional personnel involved in the QA program