

Superior Data Quality

Brooks Rand Labs strongly recognizes the importance of scientifically accurate and precise measurements that are legally defensible and useful for regulatory, litigation, and research purposes. We maintain a thoroughly detailed *Comprehensive Quality Assurance Plan* (available upon request) that addresses all aspects of our procedures including training, sample handling, analyses, data review, and corrective actions. Our program is designed by highly experienced laboratory professionals and is a leading example of best practices in our industry. Our expertise is regularly employed to validate the quality of emerging methods, Standard and Certified Reference Materials, and even data produced by other laboratories.

Accreditation & Certification

As independent verification of the quality of our program, we maintain formal accreditations with numerous state and federal accrediting agencies that require frequent performance tests and a vigorous auditing schedule. Our primary NELAP accreditation is certified by the State of Florida, Department of Health, Bureau of Laboratories and is reciprocated by many other states. Further accreditations have been granted to us by:

- US Dept. of Defense ELAP
- California ELAP
- Louisiana LELAP
- Maine Dept. of Health & Human Services
- New Jersey Dept. of Environmental Protection
- New York State Dept. of Health
- Oregon ELAP
- Washington Dept. of Ecology

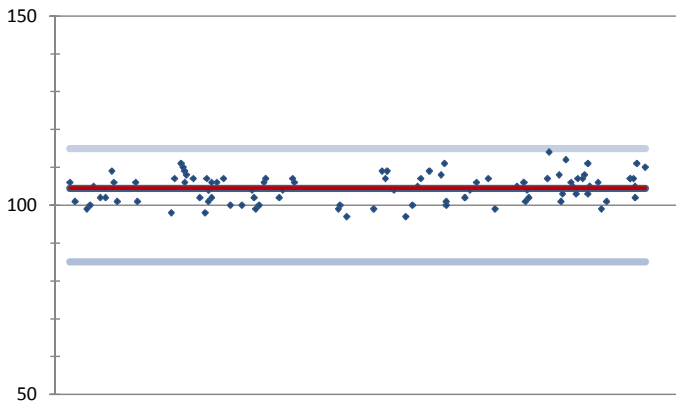
Data Review & Quality Control Analyses

Ensuring the accuracy and precision of every result we report to a client is our highest priority. Our data review process is exhaustive and includes, at minimum, a review by an analyst, quality assurance, and two project managers. In a typical analytical batch (approx. 20 clients' samples of a similar matrix), we perform numerous quality control analyses at a frequency few other laboratories attempt to approach.

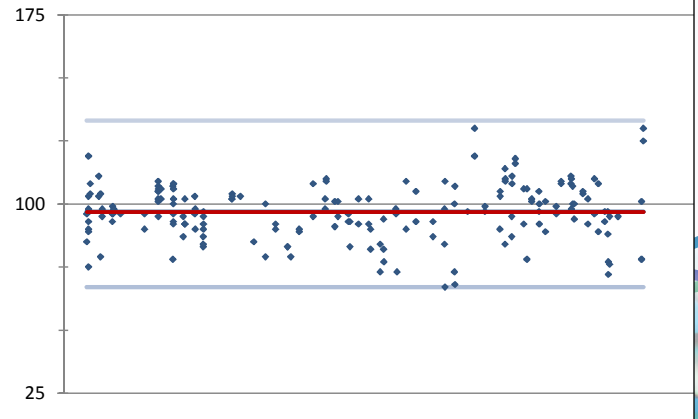
QC Sample Type	Determines	Frequency
Standard Reference Materials	analytical accuracy	1 per specific matrix type
Blank Spikes	analytical accuracy	2 per batch
Method Blanks	contamination levels and reporting limits	4 per batch
Duplicates	analytical replicate precision	1 per 10 client samples
Matrix Spikes	matrix-specific analytical interferences	1 per 10 client samples
Matrix Spike Duplicates	interferences and replicate precision	1 per 10 client samples
Post Preparation Spikes	matrix-specific analytical interferences	1 per MS outside 1-20x native

We also frequently perform duplicate analyses of clients' samples if there is any reason to question the initial result. Depending on the analysis and specific matrix we often perform as many additional analyses per batch as listed in this table.

Average 2009 Mercury SRM Recoveries



Average 2009 Methylmercury BS Recoveries



“...timely, professional, and knowledgeable... Brooks Rand Labs stands out as one of the best in client services.”

*Forrest Dierberg, Ph.D.
Vice President and Laboratory Director
DB Environmental, Inc.*

Proficiency Testing

To demonstrate the consistent reliability of our analytical techniques, we submit biannual proficiency testing results of water and soil samples to Environmental Resource Associates for evaluation. Below are example reported values from very recent evaluations:

ERA's WP-174 WatR™			
Analyte	Reported Value	Assigned Value	Percent Error
Aluminum	351	355	-1.1%
Arsenic	689	723	-4.7%
Beryllium	448	466	-3.9%
Chromium	906	947	-4.3%
Cobalt	779	787	-1.0%
Copper	266	262	1.5%
Lead	596	594	0.3%
Manganese	1090	1100	-0.9%
Nickel	355	371	-4.3%
Selenium	1120	1150	-2.6%
Silver	149	156	-4.5%
Thallium	697	711	-2.0%
Titanium	109	110	-0.9%
Zinc	609	619	-1.6%

ERA's SOIL-67			
Analyte	Reported Value	Assigned Value	Percent Error
Arsenic	153	148	3.4%
Barium	273	275	-0.7%
Beryllium	161	168	-4.2%
Chromium	115	114	0.9%
Cobalt	149	153	-2.6%
Copper	115	116	-0.9%
Lead	148	155	-4.5%
Manganese	550	534	3.0%
Nickel	139	144	-3.5%
Selenium	208	221	-5.9%
Silver	18.4	17.5	5.1%
Strontium	258	256	0.8%
Titanium	463	447	3.6%
Zinc	235	227	3.5%

Intercomparisons Studies

We also participate in the FDEP Florida Everglades Mercury Round Robin (HgRR) Inter-Laboratory Comparison Program. Water samples from three sites are analyzed for total mercury and methylmercury at ultra-low levels by several laboratories with the results evaluated against a consensus mean. The best possible score per site is 5 or a total of 15. During a recent round (HgRR7), Brooks Rand Labs achieved the following scores:

	Total Mercury Scores				Methylmercury Scores			
	Site 1	Site 2	Site 3	Total	Site 1	Site 2	Site 3	Total
Lab-A	4	4	4	12	0	0	0	0
Lab-B	0	0	3	3	3	3	4	10
Lab-C	3	3	4	10	4	5	5	14
Lab-D	2	1	1	4	5	5	4	14
BRL	5	5	5	15	5	5	5	15
Lab-F	5	5	5	15	5	5	5	15
Lab-G	5	5	5	15	4	3	4	10
Lab-H	5	5	5	15	1	1	1	3