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Title: 2010 Sample Rejection Rate

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Total Samples Collected vs. Sample Rejection Rates for 2010

Sample rejection rate is about 2% or 23,428 out of about 1,430,000 analytes or measurements.

Below are the **preliminarily** tables from the 2010 Environmental Surveillance Report:

QC Sample Type	Number of Analytes Qualified as Rejected (R)	Percent 2010 Data
Holding Times	218	0.02
Initial Calibration Verifications or Continuing Calibration Verifications	7,616	0.61
Internal Standards or Surrogates	3,210	0.27
Laboratory Control Samples	516	0.04
Laboratory Duplicates	38	0.003
Matrix Spike Samples	332	0.03
Spectra not match	11,427	0.91
Professional Judgment	50	0.004
Blank rejection	21	0.001

Table 1-2
Approximate Numbers of Environmental
Samples, Locations, and Analytes Collected in 2010

Sample Type or Media	Locations	Frequency of Sampling	Analytes or Measurements
Ambient Air	63	Biweekly	7800 ^b
Stack Monitoring	29	Weekly	23,000
Biota	38	Annual	1900
Routine Soil Surveillance Sampling	25	Annual	600
Sediment	601	Annual	180,000
Foodstuffs	136	annual	3000
Groundwater	195	Quarterly/semi-annual/annual	160,000
NPDES Outfalls	14	Monthly	2200
Surface Water Base Flow	26	Quarterly/semi-annual/annual	16,000
Surface Water Storm Runoff	54	Following rains	25,000
Neutron Radiation	47	Quarterly	190
Gamma Radiation	98	Quarterly	390
Environmental Restoration Soil/Rock Investigation Sampling	1,609	Annual	850,000
Subsurface Vapor Monitoring	84	Monthly/Quarterly/Annually	160,000
Totals:	4145		1,430,000

Note: Not all the data counted in the table above are reported in this document. Totals include duplicate samples but do not include additional samples and results from the extensive quality assurance/quality control program, which are normally 10% to 20% more but can be over 60% more, depending on the media.

* Does not include particulate (in air) measurements made by four Tapered Element Oscillating Microbalance instruments that calculated particulate concentrations every half hour.