



2009 North American Proficiency Testing Program
4th Quarter Report - November 22, 2009

Laboratory ID

Environmental		Soil 2009-116			Soil 2009-117			Soil 2009-118			Soil 2009-119			Soil 2009-120			
Soil Analyses	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Ag	mg/kg	2	0.174	0.174		0.068	0.068		0.124	0.124		0.111	0.111		0.124	0.124	
Al	mg/kg	10	13806	2794		7272	535		21281	1510		25229	6772		20120	2528	
As	mg/kg	9	4.68	0.820		1.56	0.370		3.09	0.708		14.9	1.78		6.89	1.11	
Ba	mg/kg	9	196	23.4		23.5	2.70		290	11.6		189	11.9		274	32.0	
Be	mg/kg	6	0.748	0.085		0.159	0.061		0.635	0.058		1.20	0.048		0.678	0.115	
Bi	mg/kg	0															
B	mg/kg	10	6.07	4.45		4.34	2.17		9.92	6.00		18.4	9.51		57.5	21.7	
Ca	mg/kg	9	4248	422		1216	184		4710	420		43128	3561		11644	1269	
Cd	mg/kg	10	0.311	0.161		0.201	0.194		0.271	0.161		0.313	0.208		0.234	0.229	
Co	mg/kg	12	4.94	0.500		2.30	0.450		10.1	0.87		9.23	1.08		9.65	0.660	
Cr	mg/kg	12	18.8	4.15		8.44	0.910		16.9	1.89		30.6	5.97		55.6	7.87	
Cu	mg/kg	12	15.3	1.67		4.06	0.530		14.7	1.22		17.8	2.70		27.6	2.78	
Fe	mg/kg	10	14722	1878		9152	1358		20651	826		23026	3472		26266	1964	
K	mg/kg	9	1750	283		446	52.4		2886	115		5668	1556		3014	164	
Li	mg/kg	4	7.08	1.37		4.64	1.12		12.2	1.32		25.0	1.83		37.5	4.82	
Mg	mg/kg	9	2570	437		1246	90.0		3548	175		10139	1101		11400	1500	
Mn	mg/kg	10	403	20.8		166	14.2		908	36.3		542	29.7		331	12.8	
Mo	mg/kg	5	0.260	0.260		0.800	0.580		0.210	0.210		0.600	0.470		0.730	0.348	
Na	mg/kg	8	33.4	11.3		73.4	22.1		141	51.1		210	24.2		3620	408	
Ni	mg/kg	12	11.2	2.16		4.56	1.24		13.5	2.45		22.6	2.70		55.3	3.61	
P	mg/kg	10	504	29.6		695	37.9		814	32.5		744	29.7		557	27.1	
Pb	mg/kg	11	12.8	3.05		7.87	2.17		10.2	4.20		14.9	6.37		12.0	4.44	
S	mg/kg	9	234	11.0		198	33.7		202	30.8		199	15.0		4981	399	
Sb	mg/kg	2	0.095	0.005		0.025	0.025		0.040	0.040		0.040	0.040		0.110	0.110	
Se	mg/kg	8	0.976	0.486		0.200	0.110		1.91	1.85		1.07	0.833		2.05	0.441	
Sn	mg/kg	1	0.100	0.000		0.000	0.000		0.000	0.000		0.200	0.000		0.000	0.000	
Sr	mg/kg	9	19.8	2.90		3.97	1.37		48.2	5.10		88.0	11.7		94.9	16.0	
V	mg/kg	7	31.3	10.7		16.8	4.80		40.8	5.03		38.0	16.2		48.7	11.9	
Zn	mg/kg	12	60.9	7.00		31.3	6.45		69.9	11.5		64.1	5.93		86.0	6.55	
Hg (US-EPA 7470)	mg/kg	3	0.020	0.010		0.010	0.010		0.020	0.000		0.010	0.005		0.010	0.010	

1 - Values flagged exceed Warning Limits * * * 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * 4 x MAD. " < " and " ND " values not recorded.
2 - Limits not compared to lab data for methods with < 7 labs reporting.