



2009 North American Proficiency Testing Program  
3rd Quarter Report - September 20, 2009

Laboratory ID

Environmental Soil Analyses	Units	n	Soil 2009-111			Soil 2009-112			Soil 2009-113			Soil 2009-114			Soil 2009-115		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Ag	mg/kg	1	0.000	0.000		0.000	0.000		0.000	0.000		0.000	0.000		0.000	0.000	
Al	mg/kg	11	8763	1992		12595	2024		9141	838		19784	2107		5689	929	
As	mg/kg	11	1.20	0.290		4.15	0.293		3.06	0.470		3.35	0.467		3.53	0.634	
Ba	mg/kg	9	55.9	5.42		131	12.6		32.7	4.85		297	11.9		41.8	2.69	
Be	mg/kg	4	0.259	0.055		0.274	0.108		0.510	0.092		0.570	0.100		0.413	0.121	
Bi	mg/kg	0															
B	mg/kg	6	6.32	2.50		10.0	5.45		13.0	4.27		8.64	3.16		11.0	4.51	
Ca	mg/kg	10	1121	102		2644	456		32106	1806		4650	327		11215	756	
Cd	mg/kg	9	0.190	0.140		0.350	0.244		0.333	0.169		0.420	0.230		0.419	0.129	
Co	mg/kg	12	4.95	0.813		5.93	2.03		4.36	0.831		10.0	2.18		3.09	0.482	
Cr	mg/kg	13	23.2	10.2		17.2	5.25		11.4	2.44		16.6	2.82		9.10	2.16	
Cu	mg/kg	13	10.6	0.77		10.0	2.01		8.85	0.710		14.9	1.76		8.03	1.16	
Fe	mg/kg	11	9852	1399		14728	2941		11812	472		21544	2603		8095	783	
K	mg/kg	10	1364	59.2		780	75.9		865	235		2824	173		809	167	
Li	mg/kg	4	4.47	1.77		6.30	2.69		9.89	2.57		14.4	4.54		5.34	2.24	
Mg	mg/kg	10	1545	154		2268	297		18691	851		3403	237		2417	183	
Mn	mg/kg	11	211	8.0		679	39.7		364	23.1		937	44.0		96.2	6.35	
Mo	mg/kg	5	0.810	0.720		0.465	0.465		0.495	0.195		0.685	0.535		0.645	0.269	
Na	mg/kg	9	63.0	20.7		176	65.0		104	18.5		165	48.1		45.5	8.94	
Ni	mg/kg	14	14.3	2.92		17.1	3.35		9.83	2.33		16.0	2.27		7.38	1.56	
P	mg/kg	12	145	20.0		921	54.5		540	42.5		827	84.2		493	43.9	
Pb	mg/kg	10	2.94	0.775		26.7	3.76		7.49	1.38		9.66	1.63		9.54	1.12	
S	mg/kg	9	34.3	3.87		111	19.4		298	25.0		206	42.0		373	53.0	
Sb	mg/kg	2	0.450	0.350		0.975	0.825		0.090	0.090		0.070	0.070		0.140	0.040	
Se	mg/kg	6	0.797	0.777		0.557	0.517		0.600	0.511		0.046	0.046		0.363	0.363	
Sn	mg/kg	1	0.600	0.000		1.000	0.000		0.000	0.000		0.500	0.000		0.300	0.000	
Sr	mg/kg	9	8.03	0.782		28.1	5.07		17.2	1.40		48.3	5.01		18.7	3.24	
V	mg/kg	7	30.3	5.08		35.6	8.52		16.6	4.45		38.1	10.0		12.6	5.45	
Zn	mg/kg	14	28.8	4.97		58.2	9.47		24.6	2.40		68.2	9.69		28.3	4.15	
Hg (US-EPA 7470)	mg/kg	3	0.020	0.011		0.030	0.007		0.040	0.007		0.030	0.002		0.020	0.003	

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.