



2013 North American Proficiency Testing Program  
4th Quarter Report - January 14, 2014

Laboratory ID  
general

Environmental Soil Analyses	Units	n	Soil 2013-116			Soil 2013-117			Soil 2013-118			Soil 2013-119			Soil 2013-120		
			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	7	7730	1380		10400	1090		12700	1440		9410	1340		13800	1100	
As	mg/kg	7	2.85	0.530		18.4	2.80		6.70	0.600		4.20	1.15		7.56	1.62	
Ba	mg/kg	4	98.3	11.3		95.1	12.0		144	12.5		91.5	10.9		102	18.4	
Be	mg/kg	3	0.600	0.200		0.500	0.200		0.900	0.000		0.700	0.100		0.900	0.200	
Bi	mg/kg																
B	mg/kg	5	3.28	1.22		4.10	2.06		5.54	2.66		5.00	1.64		18.2	4.88	
Ca	mg/kg	6	3190	104		4440	238		1800	186		2610	150		81400	4600	
Cd	mg/kg	8	0.370	0.158		0.360	0.240		0.260	0.120		0.283	0.158		0.610	0.180	
Co	mg/kg	7	4.10	0.590		12.7	2.07		10.5	1.78		6.58	1.00		8.30	0.800	
Cr	mg/kg	8	10.5	2.22		11.4	2.07		15.8	2.88		15.1	3.57		22.7	4.72	
Cu	mg/kg	8	6.90	0.880		15.8	1.86		10.5	0.850		14.0	0.900		17.9	1.52	
Fe	mg/kg	7	7420	417		26400	2620		16300	1580		10900	2250		16800	1030	
K	mg/kg	6	959	50.0		3030	253		1310	142		1279	338		5240	1540	
Li	mg/kg	2	78.0	75.0		78.0	69.0		119	112		88.0	81.0		100	67.0	
Mg	mg/kg	6	708	119		4710	95.1		1310	137		1970	285		43000	2110	
Mn	mg/kg	7	380	24.9		417	19.9		1050	31.0		427	40.0		500	30.9	
Mo	mg/kg	2	2.16	1.05		3.17	2.13		3.89	2.32		2.69	1.42		1.33	0.375	
Na	mg/kg	5	60.9	4.10		484	166		39.9	19.8		58.3	16.8		203	33.1	
Ni	mg/kg	8	5.56	0.600		9.36	1.30		16.2	1.78		8.75	1.54		20.8	3.44	
P	mg/kg	7	492	10.0		934	14.5		462	0.900		650	22.0		1010	37.0	
Pb	mg/kg	7	17.2	2.60		192	3.00		20.1	5.31		15.0	3.88		17.8	4.60	
S	mg/kg	5	226	8.80		132	5.90		142	6.00		209	15.6		268	40.0	
Sb	mg/kg	1	7.70	0.000		12.9	0.000		5.20	0.000		3.80	0.000		6.30	0.000	
Se	mg/kg	3	0.300	0.020		0.030	0.000		0.500	0.080		2.61	2.35		0.390	0.110	
Sn	mg/kg																
Sr	mg/kg	3	8.00	0.430		30.0	3.80		7.00	0.370		6.00	1.21		49.0	12.3	
V	mg/kg	4	25.2	6.65		60.2	11.4		39.2	14.2		23.5	10.8		35.0	11.6	
Zn	mg/kg	8	44.4	4.90		59.4	6.44		42.8	4.40		42.0	5.35		73.4	7.84	
Hg (US-EPA 7470 or 7471)	mg/kg	3	0.028	0.008		0.010	0.005		0.020	0.003		0.049	0.009		0.028	0.008	

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