



2016 North American Proficiency Testing Program  
4th Quarter Report - January 13, 2017

Laboratory ID  
general

Environmental Soil Analyses	Units	n	Soil 2016-116			Soil 2016-117			Soil 2016-118			Soil 2016-119			Soil 2016-120		
			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																
Al	mg/kg	8	19000	2920		30000	1960		19400	455		16200	2640		21100	3260	
As	mg/kg	7	7.16	1.12		5.02	1.06		29.2	1.93		3.07	0.690		0.586	0.221	
Ba	mg/kg	4	216	10.0		162	7.00		101	6.40		140	2.5		124	7.50	
Be	mg/kg	1	1.30	0.000		1.50	0.000		1.60	0.000		1.10	0.000		1.00	0.000	
Bi	mg/kg																
B	mg/kg	5	9.50	4.10		7.72	6.21		6.74	3.60		12.0	7.04		3.69	1.69	
Ca	mg/kg	7	4790	130		3730	167		1100	44.3		5750	594		3710	992	
Cd	mg/kg	6	0.495	0.188		0.085	0.084		0.192	0.127		0.085	0.071		0.095	0.064	
Co	mg/kg	6	9.62	0.525		16.5	1.50		8.66	0.445		5.57	0.360		11.2	0.850	
Cr	mg/kg	8	24.3	1.74		24.7	5.26		25.9	5.30		19.5	1.86		18.8	1.92	
Cu	mg/kg	9	19.8	4.23		16.2	2.27		16.0	1.40		11.0	1.52		22.2	3.60	
Fe	mg/kg	6	19200	1120		31300	800		17300	636		15200	381		23200	4400	
K	mg/kg	6	3820	768		1520	264		1160	167		4050	839		1550	154	
Li	mg/kg	2	129	119		97.0	85.5		59.9	49.3		111	94.0		69.7	62.2	
Mg	mg/kg	6	3420	359		3040	114		1920	64.8		5260	235		4550	397	
Mn	mg/kg	6	1010	54.2		779	35.5		442	20.5		315	21.3		436	34.9	
Mo	mg/kg	4	0.865	0.224		0.802	0.492		0.600	0.151		0.332	0.028		0.765	0.385	
Na	mg/kg	5	71.6	18.8		89.9	25.0		49.8	13.7		151	44.0		839	179	
Ni	mg/kg	8	21.3	2.30		13.8	3.08		14.0	2.10		14.0	0.500		30.9	1.99	
P	mg/kg	8	1010	3.65		1070	27.0		896	19.8		225	10.1		540	16.0	
Pb	mg/kg	8	13.8	1.71		12.6	0.839		107	6.00		7.26	1.31		5.30	0.386	
S	mg/kg	5	349	36.0		280	30.0		193	34.0		193	23.0		115	25.0	
Sb	mg/kg	1	3.03	0.000		2.27	0.000		2.17	0.000		4.19	0.000		3.44	0.00	
Se	mg/kg	5	0.700	0.600		0.150	0.090		0.200	0.180		0.450	0.390		0.100	0.040	
Sn	mg/kg	1	30.0	0.000		31.3	0.000		11.7	0.000		37.6	0.000		56.3	0.000	
Sr	mg/kg	3	23.0	4.00		25.0	3.00		6.00	1.21		27.0	6.00		35.9	2.10	
V	mg/kg	4	39.7	10.7		96.1	5.39		36.8	3.70		27.2	10.5		53.9	7.28	
Zn	mg/kg	9	78.4	7.66		64.0	4.00		50.0	3.09		30.9	3.93		45.0	9.08	
Hg (US-EPA 7470 or 7471)	mg/kg	1	0.020	0.000		0.020	0.000		0.040	0.020		0.020	0.000		0.020	0.000	

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