

HEAVY METALS

NYSDEC TAGM Regulatory Levels

March 2002

COMPOUND	NYSDEC TAGM CRITERIA (ppm)	SOIL SAMPLES RESULTS				
		Soil Sample 1 (ppm)	Soil Sample 2 (ppm)	Soil Sample 3 (ppm)	Soil Sample 4 (ppm)	Soil Sample 5 (ppm)
Aluminum	SB (33,000)	3,700	4,900	4,840	5,510	4,720
Arsenic	7.5 or SB (3 - 12)	1.5	2.2	2.8	4.3	2.2
Barium	300 or SB (15 - 600)	45.7	55.6	51.6	62.8	70.6
Beryllium	0.16 or SB (0 - 1.75)	0.016	0.21	0.2	0.28	0.2
Cadmium	1 or SB (0.1 - 1)	0.88	0.76	1.3	2.4	0.73
Calcium	SB (130 - 35,000)	38,800	68,500	87,400	66,800	39,400
Chromium	10 or SB (1.5 - 40)	13.3	16.2	17.1	17.8	18
Cobalt	30 or SB (2.5 - 60)	2.700	3	2.7	3.5	4
Copper	25 or SB (1 - 50)	440	135	210	203	305
Iron	2,000 or SB (2,000 - 550,000)	17,300	12,400	11,900	12,900	9,680
Lead	SB (200 - 500)	46.2	129	122	102	88.4
Magnesium	SB (100 - 5,000)	3,660	7,750	18,800	7,480	6,190
Manganese	SB (50 - 5,000)	246	229	233	229	200
Mercury	0.10	0.085	0.062	0.17	0.11	0.31
Nickel	13 or SB (0.5 - 25)	10.9	12.7	10.3	15.2	25.4
Potassium	SB (8,500 - 43,000)	787	1,060	980	1,020	1,080
Selenium	2 or SB (0.1 - 3.9)	1.2	0.88	0.71	0.84	0.81
Sodium	SB (6,000 - 8,000)	1,480	1,220	1,990	1,880	940
Vanadium	150 or SB (1 - 300)	12.3	11.7	12.1	12.9	22.7
Zinc	20 or SB (9 - 50)	564	394	794	740	257

Bold # and shaded box - Soil sample results exceed NYSDEC TAGM regulatory levels.

NYSDEC TAGM - New York State Department of Environmental Conservation Technical & Administrative Guidance Memorandum

SB - Site Background. Numbers in brackets () indicate eastern USA soil background.

ppm - part per million

* Soil samples were taken on March 2002.