

HEAVY METALS

NYSDEC TAGM Regulatory Levels

December 2001

COMPOUND	NYSDEC TAGM CRITERIA (ppm)	SOIL SAMPLE 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)	4,010	6,050	4,700	3,250	7,130
Arsenic	7.5 or SB (3 - 12)	3	3.7	4.9	3.2	3.3
Barium	300 or SB (15 - 600)	53.3	101	41.8	37.2	67.2
Beryllium	0.16 or SB (0 - 1.75)	0.27	0.3	0.25	0.18	0.38
Cadmium	1 or SB (0.1 - 1)	2.4	1.1	ND	ND	ND
Calcium	SB (130 - 35,000)	79,100	78,400	74,300	40,500	101,000
Chromium	10 or SB (1.5 - 40)	16	15.5	17.2	9.6	19.1
Cobalt	30 or SB (2.5 - 60)	3.8	4.3	2.7	3.3	3.1
Copper	25 or SB (1 - 50)	648	317	952	53.3	8,600
Iron	2,000 or SB (2,000 - 550,000)	11,500	19,600	8,240	8,620	8,430
Lead	SB (200 - 500)	111	111	91.6	43	113
Magnesium	SB (100 - 5,000)	5,880	6,480	7,120	5,090	7,400
Manganese	SB (50 - 5,000)	197	238	154	128	184
Mercury	0.10	0.11	0.12	0.071	0.07	0.048
Nickel	13 or SB (0.5 - 25)	9.3	9.4	9.3	15.7	12.3
Potassium	SB (8,500 - 43,000)	620	586	759	497	1,180
Selenium	2 or SB (0.1 - 3.9)	ND	ND	ND	ND	ND
Sodium	SB (6,000 - 8,000)	490	637	503	268	792
Vanadium	150 or SB (1 - 300)	9.2	10.5	8.9	9.3	12.5
Zinc	20 or SB (9 - 50)	1,260	2,060	611	257	702

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

ND - Not Detected

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 December 19, 2001.