

**Test Results of NYS and National Environmental Protection Agency
Incinerator Fly Ash, Bottom Ash and Combined Ash
Compared to State Soil Cleanup Objectives for Toxic Waste Sites
Overwhelming Majority Greatly Exceed State Cleanup Requirements^{1,2,3,4}**

Source	Chemical	Test Result (ppm)	DEC Soil Cleanup Objectives (ppm)
Ogden Martin Inc. Ash	Lead	1,400	63
Foster Wheeler	Lead	2,650	63
EPA Incinerator Fly Ash	Lead	200 – 26,600	63
EPA Incinerator Bottom Ash	Lead	110 – 5,300	63
Ogden Martin Inc. Ash	Cadmium	40.1	2.5
Foster Wheeler	Cadmium	60.3	2.5
EPA Incinerator Fly Ash	Cadmium	5 – 2,210	2.5
EPA Incinerator Bottom Ash	Cadmium	1.1 – 46	2.5
Ogden Martin Inc. Ash	Mercury	4.3	1.8 (Total Mercury)
Foster Wheeler	Mercury	4.1	1.8 (Total Mercury)
EPA Incinerator Fly Ash	Mercury	0.9 – 47	1.8 (Total Mercury)
EPA Incinerator Bottom Ash	Mercury	Non-Detect – 1.9	1.8 (Total Mercury)
EPA Incinerator Fly Ash	Arsenic	15 – 750	13
EPA Incinerator Bottom Ash	Arsenic	1.3 – 24.6	13
EPA Incinerator Fly Ash	Chlorobenzenes	80 – 4,220	1.1 (Chlorobenzene)
EPA Incinerator Bottom Ash	Chlorobenzenes	17	1.1 (Chlorobenzene)

Compiled by Anne Rabe, NYPIRG, June 2023.

EPA Incinerator Fly Ash	Florene	0 – 100	30
EPA Incinerator Bottom Ash	Florene	Non-Detect – 150	30
EPA Incinerator Fly Ash	Fluoranthene	0 – 6,500	85
EPA Incinerator Bottom Ash	Fluoranthene	110 – 230	85
EPA Incinerator Fly Ash	Furans: 2,3,7,8-TCDF	0.1 – 5.4	2.1 (Dibenzofuran)
EPA Incinerator Fly Ash	Furans: Total PCDFs	3.73 – 3,187	2.1 (Dibenzofuran)
EPA Incinerator Bottom Ash	Furans: 2,3,7,8-TCDF	Non-Detect – 10	2.1 (Dibenzofuran)
EPA Incinerator Bottom Ash	Furans: Total PCDFs	Non-Detect – 65	2.1 (Dibenzofuran)
EPA Incinerator Fly Ash	PCBs	Non-Detect – 250	0.1
EPA Incinerator Bottom Ash	PCBs	Non-Detect – 180	0.1

¹ *Waste Not*, March 1995, Pg. 9, DEC Wildlife Pathologist Test Results for Ogden Martin Incinerator Ash, Syracuse NY, and Foster Wheeler Incinerator Ash, Hudson Falls, NY <https://www.energyjustice.net/incineration/ash.pdf#page=9>

² *Waste Not*, March 1995, Pg. 5, U.S. Environmental Protection Agency, Characterization of Municipal Waste Combustor Ashes and Leachates From Municipal Solid Waste Landfills, Monofills, and Codisposal Sites, 1987. <https://www.energyjustice.net/incineration/ash.pdf#page=5>

³ Soil Cleanup Objectives for Brownfield/Superfund Sites, 375-6.8 Soil cleanup objective tables. (a) Unrestricted use soil cleanup objectives, Pg. 68 – 70, Department of Environmental Conservation, [Express Terms – 2022 Amendments to 6 NYCRR Part 375 - Environmental Remediation Programs, Environmental Remediation Regulatory Revisions - NYS Dept. of Environmental Conservation](#)

⁴ [Dioxins, Furans and Dioxin-Like Polychlorinated Biphenyls Factsheet | National Biomonitoring Program | CDC](#)