

Fukushima Daiichi Nuclear Power Station: Plutonium analysis result in the soil

1. Analysis result

(Unit: Bq/kg· Dry soil)

Sampling spots (): Distance from the stack of Unit 1 and 2	Date of sampling/ Analyzing organization	Pu-238	Pu-239 and Pu-240
(1) Playground (west-northwest approx. 500m)	May 2 Japan Chemical Analysis Center	$(5.2 \pm 0.83) \times 10^{-2}$	$(3.3 \pm 0.64) \times 10^{-2}$
(2) Forest of wild birds (west approx. 500m)		ND	ND
(3) Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		ND	ND
(1) Playground (west-northwest approx. 500m)	May 5 JAEA	$(4.1 \pm 0.41) \times 10^{-1}$	$(1.5 \pm 0.23) \times 10^{-1}$
(2) Forest of wild birds (west approx. 500m)		N.D.	N.D.
(3) Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		$(1.5 \pm 0.25) \times 10^{-1}$	$(1.0 \pm 0.20) \times 10^{-1}$
Soil in Japan*		N.D. - 1.5×10^{-1}	N.D. - 4.5

*: Ministry of Education, Culture, Sports, Science and Technology "Environmental Radiation Database, 1978 - 2008"

2. Evaluation

Detected densities of Pu-238, Pu-239 and Pu-240 on May 2nd and 5th are the same level as that of the measured fallouts in Japan in the cases of past nuclear tests in the atmosphere. However, this can be considered to be caused by the nuclear accident of this time.

Meanwhile, in the "playground", although Pu-238, 239, and Pu-240 are detected from the samples taken on and after March 21, those values have not been greatly changed.