

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

1. Analysis result

(Unit: Bq/kg· Dry soil)

Sampling spot (): Distance from the stack of Units 1, 2	Date of sampling/ Analyses organization	Pu-238	Pu-239, Pu-240
Playground (west-northwest approx. 500m)	June 2/ JAEA	N.D.	N.D.
Forest of wild birds (west approx. 500m)		N.D.	N.D.
Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		$(3.2 \pm 0.35) \times 10^{-1}$	$(1.6 \pm 0.24) \times 10^{-1}$
Soil in Japan*		N.D. $\sim 1.5 \times 10^{-1}$	N.D. $\sim 1.5 \times 10^{-1}$

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

* Sampling spot for and is slightly differed in the same area each time in order to avoid the duplication of sampling spot. Sampling spot for make variation based on the depth at which samples are collected (sampling spot will be changed when the depth reach the level where the sampling collection is not possible).

2. Evaluation

Density of Pu-238, Pu-239, and Pu-240 detected is the same level as that of the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere. However, this can be considered to be caused by the nuclear accident of this time.

Meanwhile, in the area “adjacent to industrial waste disposal facility and ground”, although Pu-238, Pu-239, and Pu-240 are detected from the samples taken on and after March 21, those values have not been greatly changed.

End