

Result of Pu nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Unit : Bq/kg·dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Pu-238	Pu-239+Pu-240
(1) Ground (WNW approx. 500m)* ¹	Mar 11, 2013	$(3.8 \pm 0.73) \times 10^{-2}$	N.D [$< 1.2 \times 10^{-2}$]
(2) Yachounomori (W approx. 500m)* ¹		$(9.4 \pm 1.2) \times 10^{-2}$	$(3.2 \pm 0.67) \times 10^{-2}$
(3) Around industrial waste treatment facility (SSW approx. 500m)* ¹		$(3.2 \pm 0.94) \times 10^{-2}$	$(7.5 \pm 1.5) \times 10^{-2}$
Domestic soil (1978 – 2008)* ²		N.D. $\sim 1.5 \times 10^{-1}$	N.D. ~ 4.5

[] shows below the detection limit.

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

*2 Source: "Environmental Radiation Database"

(Ministry of Education, Culture, Sports, Science and Technology)

2. Analytical Institution: KAKEN Inc.

3. Evaluation:

The densities of Pu-238, Pu-239 and Pu-240 detected on November 12 are the same level as those of the fallouts observed in Japan after the past atmospheric nuclear tests. However, there is a possibility that the higher densities originate from the accident this time, taking the previous analysis results into consideration.

End