

Detection of Strontium (Sr) in the soil in Fukushima Daiichi Nuclear Power Station

1. Result of Analysis

(Unit: Bq/kg·Dry soil)

Place of sampling**, Distance from Unit 1&2 stack	Date of Sampling, Organization	Sr-89	Sr-90
i. Ground (West-northwest approx. 500m)	December 12 Japan Chemical Analysis Center	$(8.2 \pm 0.50) \times 10^1$	$(2.4 \pm 0.04) \times 10^2$
ii. Wild birds' forest (West approx. 500m)		N.D.	$(3.2 \pm 0.51) \times 10^0$
iii. Near the industrial waste disposal facility (South-southwest approx. 500m)		$(4.7 \pm 0.49) \times 10^1$	$(1.8 \pm 0.04) \times 10^2$
The range of past measurement*		-	N.D. ~ 4.3

*quoted from the report on the measurement result of the radioactivity in surrounding environment in the vicinity of nuclear power plant, version 2009 (from 1999 to 2008)

** "i. Ground", "iii. Near the industrial waste disposal facility": Collected at adjoining sites in order to avoid overlap with the past samplings.

"ii. Wild birds' forest": Collected vertically at each site (collection continued at one site unless no more sample was able to be collected)

2. Evaluation

The density of Sr-90 detected is higher than the density measured in the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, it is considered that they originate from the accident this time.

End