

## Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1. Result of measurement: The results of gamma ray nuclide analysis from the samples taken in the power station are as follows.  
Analysis was conducted on all samples on which we conducted plutonium analysis.
2. Evaluation: The result of gamma ray nuclide analysis of soil conducted by Fukushima Prefecture in FY 2009 is shown below.  
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis conducted by Fukushima Prefecture in FY 2009>  
Cs-137: ND ~ 21Bq/kg·dry soil, Others: ND

(Unit: Bq/kg·wet soil)

Sampling spot		[Fixed point ]*1 Playground (west-northwest approx. 500m)*2	[Fixed point ]*1 Forest of wild birds (west approx. 500m)*2	[Fixed point ]*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		5/30	5/30	5/30
Analyses Organization		JAEA	JAEA	JAEA
Date of analysis		6/3	6/3	6/3
Nuclide (Half-life)	I-131(approx. 8 days)	1.8E+04	3.3E+02	2.0E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	6.7E+05	2.2E+03	1.7E+06
	Cs-136(approx. 13 days)	2.7E+03	ND	6.1E+03
	Cs-137(approx. 30 years)	7.1E+05	2.4E+03	1.8E+06
	Te-129m(approx. 34 days)	8.3E+04	ND	3.1E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	8.8E+02	ND	1.4E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(aapprox. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	3.3E+03	ND	2.5E+03

\*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point

in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

\*2 Distance from the stack of Unit 1, 2