

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
 Samples collected in the fourth quarter of FY2017

[Measurement results of Sr-90 (half-life approx. 29 years) in fish]

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
			Sr-90 ^{*1} (Approx. 29 years)	Reference ^{*1} (Sum of Cs-134 and Cs-137)
Black sea bream (whole) *2	Around 3km Offshore of Fukushima Daiichi (T-S4)	January 11, 2018	0.13	ND
Japanese sea bass (whole) *3	Around 3km Offshore of Fukushima Daiichi (T-S4)	February 8, 2018	0.12	12
Slime flounder (whole) *3	Around 2km Offshore of Kido River (T-S5)	January 30, 2018	0.36	21
Gurnard (whole) *2	Around 4km Offshore of Kumagawa (T-S8)	February 22, 2018	0.035	358
Slime flounder (whole) *2	Around 4km Offshore of Kumagawa (T-S8)	March 25, 2018	0.95	49.1

*1 Cs: Edible parts of fish were used for the measurement. Sr: Whole of fish were used for the measurement.

The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*The Sr-90 analysis was conducted by ^{*2}KANSO CO., LTD. and by ^{*3}Kyushu Environmental Evaluation Association.

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
Samples collected in the fourth quarter of FY2017

[Measurement results of Tritium (half-life approx. 12 years) in fish]

Place of Sampling(Place No.): Around 4km Offshore of Kumagawa (T-S8)

Name of Sample (Region)	Date of Sampling	Tritium concentration (Bq/L)		Tritium concentration (Bq/kg (Raw))		Reference (Sum of Cs-134 and Cs-137) (Bq/kg (Raw))
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	
Flatfish (muscle)	January 19, 2018	0.120	ND(0.27)	0.094	ND(0.038)	ND
Flatfish (muscle)	February 22, 2018	0.080	ND(0.27)	0.063	ND(0.038)	ND
Flatfish (muscle)	March 25, 2018	0.093	ND(0.27)	0.072	ND(0.039)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	January 18, 2018	0.072
	February 21, 2018	0.075
	March 24, 2018	0.078

*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*The tritium analysis was conducted by Kyushu Environmental Evaluation Association.

*Edible parts of fish were used for the measurement.

*Free Water Tritium means tritium which is contained in the moisture of fish muscles and the values are compared with tritium concentrations in seawater where fish lives.

Organically Bound Tritium means tritium which is contained in dried fish muscles and the values show tritium concentrations in the vapor generated when dried fish is burned.

*The measurement results are calculated to two significant figures.

*ND, not detected, indicates that a value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis.