

Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/4 >

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.38	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	21	25	46
Greenling (Muscle) No.39	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	24	38	62
Greenling (Muscle) No.40	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	26	36	62
Greenling (Muscle) No.41	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	32	55	87
Greenling (Muscle) No.42	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	42	72	114
Greenling (Muscle) No.43	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	47	67	114
Greenling (Muscle) No.44	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	32	60	92
Greenling (Muscle) No.45	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	40	60	100
Greenling (Muscle) No.46	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	70	100	170
Greenling (Muscle) No.47	Around 1km Offshore of Ota River (T-S1)	September 11, 2012	46	62	108

* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/4 >

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.48	Around 1km Offshore of Ota River (T-S1)	September 12, 2012	28	40	68
Greenling (Muscle) No.49	Around 1km Offshore of Ota River (T-S1)	September 12, 2012	36	69	105
Greenling (Muscle) No.50	Around 1km Offshore of Ota River (T-S1)	September 12, 2012	16	27	43
Greenling (Muscle) No.51	Around 1km Offshore of Ota River (T-S1)	September 12, 2012	22	24	46
Greenling (Muscle) No.52	Around 1km Offshore of Ota River (T-S1)	September 12, 2012	ND	14	14
Lepidotrigla microptera (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	4.0	9.1	13.1
Common Skete (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	63	110	173
Microstomus achne (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	34	52	86
Flatfish (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	ND	6.1	6.1
Marbled sole (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	8.6	22	30.6

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 14Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 3/4 >

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Dory (Muscle)	Around 10km Offshore of 1F (T-B3)	September 10, 2012	8.1	8.9	17
Stone flounder (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	49	68	117
Zenopsis nebulosa (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	ND	ND	ND
Lepidotrigla microptera (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	5.4	12	17.4
Common Skete (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	100	180	280
Crimson sea bream (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	ND	7.1	7.1
Flatfish (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	31	54	85
Smooth dogfish (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	12	15	27
Marbled sole (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	49	64	113
Pagrus major (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	ND	ND	ND

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.4Bq/kg (Raw), Cs-137: Approx. 4.8Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 4/4 >

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Dory (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	13	19	32
Roundnose flounder (Muscle)	Around 10km Offshore of 2F (T-B4)	September 10, 2012	10	21	31

* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg
 * Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/3 >

[Measurement result of fish and selfish where radioactive materials other than Cs were detected]

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Ag-110m (Approx. 250 days)	Sr-90* (Approx. 29 years)	Total
Andrea cuttlefish (Whole)	Around 15km Offshore of Odaka Ward (T-B1)	May 17, 2012	26	—	ND
Andrea cuttlefish (Whole)	Around 15km Offshore of Odaka Ward (T-B1)	May 30, 2012	5.4	—	ND
Andrea cuttlefish (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	26	—	ND
Andrea cuttlefish (Whole)	Around 10km Offshore of 2F (T-B4)	April 26, 2012	23	—	ND
Blue crab (Whole)	Around 1km Offshore of Ota River (T-S1)	May 9, 2012	21	—	ND
Blue crab (Whole)	Around 1km Offshore of Ota River (T-S1)	June 6, 2012	15	—	ND
Blue crab (Whole)	Around 3km Offshore of Odaka Ward (T-S2)	June 6, 2012	23	—	7.7
Blue crab (Whole)	Around 2km Offshore of 2F (T-S7)	May 30, 2012	19	—	7.1
Sebastes cheni (Muscle)	Around 3km Offshore of 1F (T-S4)	May 25, 2012	ND	0.33	1590
Sebastes cheni (Muscle)	Around 2km Offshore of Kido River (T-S5)	May 2, 2012	ND	0.53	1880

- " - " : Out of scope.

- When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Ag-110m: Approx. 10Bq/kg (Raw), Cs-134: Approx. 6.9Bq/kg (Raw), Cs-137: Approx. 5.2Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

- Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

- Ag-110m: Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc., Sr-90: Analyzed by THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

* Measured by the whole fish (nuclide analysis results of Sr-90 was added on November 30, 2012).

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/3 >

[Measurement result of fish and selfish where radioactive materials other than Cs were detected]

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Ag-110m (Approx. 250 days)	Sr-90* (Approx. 29 years)	Total
Loliginid (Whole)	Around 18km Offshore of Ukedo River (T-B2)	June 14, 2012	8.2	—	ND
Sea bass (Muscle)	Around 2km Offshore of Kido River (T-S5)	April 7, 2012	ND	0.25	1610
Microstomus achne (Muscle)	Around 2km Offshore of Kido River (T-S5)	April 11, 2012	ND	1.5	1260
Microstomus achne (Muscle)	Around 2km Offshore of Kido River (T-S5)	May 2, 2012	ND	1.1	1140
Ovalipes punctatus (Whole)	Around 1km Offshore of Ota River (T-S1)	May 9, 2012	25	—	ND
Ovalipes punctatus (Whole)	Around 1km Offshore of Ota River (T-S1)	June 6, 2012	13	—	8.3
Ovalipes punctatus (Whole)	Around 3km Offshore of Odaka Ward (T-S2)	May 9, 2012	24	—	ND
Ovalipes punctatus (Whole)	Around 3km Offshore of Odaka Ward (T-S2)	June 6, 2012	24	—	ND
Ovalipes punctatus (Whole)	round 3km Offshore of Ukedo River (T-S3)	June 27, 2012	22	—	9.6
Ovalipes punctatus (Whole)	Around 3km Offshore of 1F (T-S4)	May 25, 2012	43	—	15.1

- " - " : Out of scope.

- When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Ag-110m: Approx. 12Bq/kg (Raw), Cs-134: Approx. 5.0Bq/kg (Raw), Cs-137: Approx. 5.0Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

- Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

- Ag-110m: Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc., Sr-90: Analyzed by THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

* Measured by the whole fish (nuclide analysis results of Sr-90 was added on November 30, 2012).

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 3/3 >

[Measurement result of fish and selfish where radioactive materials other than Cs were detected]

(Data summarized on September 28)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Ag-110m (Approx. 250 days)	Sr-90* (Approx. 29 years)	Total
Ovalipes punctatus (Whole)	Around 3km Offshore of 1F (T-S4)	June 27, 2012	24	—	8.2
Ovalipes punctatus (Whole)	Around 2km Offshore of Kido River (T-S5)	April 7, 2012	42	—	26
Ovalipes punctatus (Whole)	Around 2km Offshore of Kido River (T-S5)	April 11, 2012	69	—	11.9
Flatfish (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	May 9, 2012	ND	0.12	1190

- " - " : Out of scope.

- When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Ag-110m: Approx. 9.3Bq/kg (Raw), Cs-134: Approx. 4.8Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

- Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

- Ag-110m: Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc., Sr-90: Analyzed by THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

* Measured by the whole fish (nuclide analysis results of Sr-90 was added on November 30, 2012).