Reference
November 27,2020
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi D&D Engineering Company

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <1/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Stingray (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.9)	ND(3.1)	ND
Blue crab (whole)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.1)	ND(3.4)	ND
Japanese angel shark (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.6)	ND(3.6)	ND
Black sea bream (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.4)	ND(3.7)	ND
Common skete (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.8)	ND(3.5)	ND
Drumfish (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(2.7)	ND(3.7)	ND
Flatfish ① (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.5)	ND(3.8)	ND
Flatfish ② (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.3)	ND(3.6)	ND
Smooth dogfish (muscle)	Around 1km Offshore of Ota River (T-S1)	October 8, 2020	ND(3.3)	ND(3.2)	ND
Blue crab (whole)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(4.0)	ND(3.8)	ND

*ND indicates that a value is less than detection limits of radioactivity concentration. The detection limit for each nuclide is shown in parenthesis.

*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <2/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Japanese angel shark (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(3.2)	ND(4.0)	ND
Common skete (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(3.6)	ND(3.7)	ND
Drumfish (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(3.3)	ND(3.3)	ND
Flatfish ① (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(4.0)	ND(3.9)	ND
Flatfish ② (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(3.6)	ND(3.6)	ND
Japanese amberjack (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(3.2)	ND(3.5)	ND
Red sea bream (muscle)	Around 3km Offshore of Odaka Ward (T-S2)	October 8, 2020	ND(4.0)	ND(3.4)	ND
Blue crab (whole)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.2)	ND(3.4)	ND
Japanese angel shark (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.8)	4.1	4.1
Common skete (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.2)	ND(3.1)	ND

*ND indicates that a value is less than detection limits of radioactivity concentration. The detection limit for each nuclide is shown in parenthesis.

*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <3/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Flatfish (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.7)	ND(3.1)	ND
Flathead (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.4)	ND(3.6)	ND
John dory (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.4)	ND(4.1)	ND
Smooth hammerhead (muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 15, 2020	ND(3.1)	ND(3.3)	ND
Blue crab (whole)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(2.8)	ND(3.5)	ND
Japanese angel shark (muscle)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(3.9)	ND(4.1)	ND
Common skete (muscle)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(3.0)	ND(3.3)	ND
Flatfish ① (muscle)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(3.5)	ND(3.7)	ND
Flatfish ② (muscle)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(3.7)	ND(3.9)	ND
Searobin (muscle)	Around 3km Offshore of 1F Site (T-S4)	October 15, 2020	ND(3.6)	ND(3.8)	ND

*ND indicates that a value is less than detection limits of radioactivity concentration. The detection limit for each nuclide is shown in parenthesis.

*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <4/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Stingray (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(3.5)	ND(3.9)	ND
Japanese angel shark (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(3.8)	ND(4.2)	ND
Black sea bream (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(3.0)	ND(3.1)	ND
Flatfish ① (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(4.4)	ND(4.0)	ND
Flatfish ② (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(3.2)	ND(3.6)	ND
Smooth dogfish (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(2.9)	ND(3.4)	ND
Flathead (muscle)	Around 2km Offshore of Kido River (T-S5)	October 22, 2020	ND(3.6)	ND(4.5)	ND
Stingray (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(3.5)	ND(3.5)	ND
Blue crab (whole)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(3.5)	ND(3.8)	ND
Common skete (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(3.5)	ND(3.7)	ND

*ND indicates that a value is less than detection limits of radioactivity concentration. The detection limit for each nuclide is shown in parenthesis.

*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <5/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Drumfish (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(3.6)	ND(4.4)	ND
Flatfish (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(4.4)	ND(3.8)	ND
Searobin (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(4.3)	ND(3.9)	ND
John dory (muscle)	Around 2km Offshore of 2F Site (T-S7)	October 22, 2020	ND(3.7)	ND(4.1)	ND
Stingray (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(3.8)	ND(3.8)	ND
Blue crab (whole)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(3.7)	7.9	7.9
Japanese angel shark (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(3.2)	ND(3.4)	ND
Japanese eagle ray (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(4.3)	ND(3.8)	ND
Flatfish ① (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(3.4)	ND(3.3)	ND
Flatfish ② (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(3.1)	3.7	3.7

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*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <6/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Searobin (muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 22, 2020	ND(4.0)	ND(3.7)	ND
Japanese angel shark (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(3.1)	3.9	3.9
Lepidotrigla microptena (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(3.3)	ND(3.6)	ND
Common skete (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(4.2)	ND(3.6)	ND
Crimson sea bream (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(3.6)	ND(3.5)	ND
Searobin (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(3.5)	ND(3.0)	ND
Red sea bream (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(4.4)	ND(4.2)	ND
John dory (muscle)	Around 15km Offshore of Odaka Ward (T-B1)	October 6, 2020	ND(3.5)	ND(3.4)	ND
Lepidotrigla microptena (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(4.0)	ND(3.8)	ND
Common skete (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.0)	ND(3.9)	ND

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*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <7/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Hairtail (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.0)	ND(3.4)	ND
Crimson sea bream (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.9)	ND(3.1)	ND
Flatfish (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.8)	ND(4.1)	ND
Searobin (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(4.0)	ND(3.7)	ND
Smooth dogfish (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.8)	5.3	5.3
Littlemouth flounder (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.9)	ND(3.8)	ND
Marbled sole (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.1)	ND(3.1)	ND
John dory (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.8)	ND(3.3)	ND
Roundnose flounder (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.9)	ND(3.3)	ND
Ridged-eye flounder (muscle)	Around 18km Offshore of Ukedo River (T-B2)	October 6, 2020	ND(3.5)	ND(4.1)	ND

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*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <8/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Stingray (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.2)	ND(3.5)	ND
Japanese angel shark (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.1)	ND(4.0)	ND
Common skete (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.2)	ND(3.6)	ND
Takifugu snyderi (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.9)	ND(3.2)	ND
Searobin (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.4)	ND(3.4)	ND
Marbled sole (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.3)	ND(3.2)	ND
John dory (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.3)	ND(4.0)	ND
Ridged-eye flounder (muscle)	Around 10km Offshore of 1F Site (T-B3)	October 20, 2020	ND(3.6)	ND(3.4)	ND
Stingray (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.0)	ND(3.8)	ND
Lepidotrigla microptena (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.3)	ND(3.6)	ND

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*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.

Nuclide Analysis Results of Fish and Shellfish
(Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station) <9/9>
(excluding the port)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	CS (Sum)
Takifugu snyderi (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.7)	ND(3.4)	ND
Crimson sea bream (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.4)	ND(3.8)	ND
Flatfish (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.6)	ND(4.2)	ND
Searobin (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.7)	ND(3.7)	ND
Smooth dogfish (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.3)	ND(3.5)	ND
Ridged-eye flounder (muscle)	Around 10km Offshore of 2F Site (T-B4)	October 20, 2020	ND(3.6)	ND(3.7)	ND

*ND indicates that a value is less than detection limits of radioactivity concentration. The detection limit for each nuclide is shown in parenthesis.

*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

*Analysis was conducted by Tokyo Power Technology Ltd.