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Tokyo Electric Power Company Holdings, Inc.  
Fukushima Daiichi D&D Engineering Company

## Analysis Results of Seabed Soil &lt;Near the Fukushima Daiichi Nuclear Power Station&gt;

[Month, Year]

	Place No.	Place of Sampling	Date and Time of Sampling	Analysis Item	
				Cs-134 (Bq/kg · Dry soil)	Cs-137 (Bq/kg · Dry soil)
Coastal Waters	T-1	North of Unit 5/6 Drainage Outlet, 1F			
	T-2	Near Southern Drainage Outlet, 1F			
	T-3	Near Northern Drainage Outlet, 2F			
	T-4	Near Iwasawa Seashore			
Within 20 km Area	T-14	3 km Offshore of Odaka Ward			
	T-11	3 km Offshore of Iwasawa Seashore			
	T-D1	3 km Offshore of Ukedo River			
	T-D5	3 km Offshore of 1F Site			
	T-D9	3 km Offshore of 2F Site			
	T-5	15 km Offshore of 1F Site			
	T-①	1 km Offshore of Murakami, Odaka Ward			
	T-②	2 km Offshore of Murakami, Odaka Ward			
	T-③	1 km Offshore of Ukedo, Namie Town			
	T-④	2 km Offshore of Ukedo, Namie Town			
	T-⑤	3 km Offshore of Ukedo, Namie Town			
	T-⑥	1 km Offshore of Kumagawa, Okuma Town			
	T-⑦	2 km Offshore of Kumagawa, Okuma Town			
	T-⑧	3 km Offshore of Kumagawa, Okuma Town			
	T-⑨	5 km Offshore of Kumagawa, Okuma Town			
	T-⑩	10 km Offshore of Kumagawa, Okuma Town			
	T-⑪	15 km Offshore of Kumagawa, Okuma Town			
	T-⑫	20 km Offshore of Kumagawa, Okuma Town			
	T-⑬	1 km Offshore of Yamadahama, Naraha Town			
	T-S1	Around 1 km Offshore of Ota River			
	T-S3	Around 3 km Offshore of Ukedo River			
	T-S4	Around 3 km Offshore of 1F Site			
	T-S5	Around 2 km Offshore of Kido River			
	T-S7	Around 2 km Offshore of 2F Site			
	T-S8	Around 4 km Offshore of Kuma River			
	T-B1	Around 15 km Offshore of Odaka Ward			
	T-B2	Around 18 km Offshore of Ukedo River			
	T-B3	Around 10 km Offshore of 1F Site			
T-B4	Around 10 km Offshore of 2F Site				
Within 30 km Area	T-13-1	1 km Offshore of Niida River			
	T-7	15 km Offshore of Iwasawa Seashore			
Outside of 30 km Area	T-18	3 km Offshore of Onahama Port			
	T-12	3 km Offshore of Northern Part of Iwaki City			
	T-17-1	1 km Offshore of Natsui River			
	T-20	3 km Offshore of Toyoma			
	T-22	3 km Offshore of Soma			
	T-MA	5 km Offshore of Kashima			
	T-M10	5 km Offshore of Numanouchi			

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- “-” indicates that the item was not included in the measurement or the sampling was stopped.
- Values are expressed in exponential notation. For example, “3.1E-01” means “ $3.1 \times 10^{-1}$ ” and equals 0.31.
- 1F means the Fukushima Daiichi Nuclear Power Station. 2F means the Fukushima Daini Nuclear Power Station.
- Analyses are conducted once a month in coastal waters and within 20 km area, and once in two months within 30 km area and outside of 30 km area.

[Date]

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## Analysis Results of Seabed Soil <Near Drainage Outlets> (Sr · γ)

Place of Sampling	Date and Time of Sampling	Analysis Item		
		Sr-90 (Bq/kg · Dry soil)	Cs-134 (Bq/kg · Dry soil)	Cs-137 (Bq/kg · Dry soil)
North of Unit 5/6 Drainage Outlet (T-1), 1F				
Near Southern Drainage Outlet (T-2), 1F				
Range of past measurement values in the sea near 1F and 2F Sites (From FY1999 to FY2008) ※1		ND ~ 1.7E-01	/	/

- Half life of each nuclide: Sr-90 (Approx. 29 years), Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- “-” indicates that the item was not included in the measurement or the sampling was stopped.
- Values are expressed in exponential notation. For example, "3.1E-01" means "3.1×10<sup>-1</sup>" and equals 0.31.
- Analysis results except for Sr-90 have already been released.
- Sr-90 was analysed by [Name of Analysis Laboratory].

※1 Source: "FY2009 Report on the Results of Radioactivity Measurements in the Environment surrounding the Nuclear Power Stations" (Liaison Committee on the Technology for Securing Safety of the Nuclear Power Stations in Fukushima Prefecture)

[Date]

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## Analysis Results of Seabed Soil <Near Drainage Outlets> (Pu)

Place of Sampling	Date and Time of Sampling	Analysis Item	
		Pu-238 (Bq/kg · Dry soil)	Pu-239+240 (Bq/kg · Dry soil)
North of Unit 5/6 Drainage Outlet (T-1), 1F			
Near Southern Drainage Outlet (T-2), 1F			
Range of past measurement values in the sea near 1F and 2F Sites (From FY1999 to FY2008) ※ <sup>1</sup>		/	1.7E-01 ~ 5.6E-01
Range of past measurement values in Japan (From FY2006 to FY2010) ※ <sup>2</sup>		ND ~ 6.0E-02	/

- Half life of each nuclide: Pu-238 (Approx. 88 years), Pu-239 (Approx. 24,000 years), Pu-240 (Approx. 6,600 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- “-” indicates that the item was not included in the measurement or the sampling was stopped.
- Values are expressed in exponential notation. For example, "3.1E-01" means "3.1×10<sup>-1</sup>" and equals 0.31.
- Analysed by [Name of Analysis Laboratory].

※ 1 Source: "FY2009 Report on the Results of Radioactivity Measurements in the Environment surrounding the Nuclear Power Stations" (Liaison Committee on the Technology for Securing Safety of the Nuclear Power Stations in Fukushima Prefecture)

※ 2 Source: Environmental Radiation Database (Nuclear Regulation Authority)  
<https://search.kankyo-hoshano.go.jp/servlet/search.top> (Referenced on April 1, 2017)

Radioactive Concentration of Seabed Soil at [ Place of Sampling\* ] (Bq/kg·Dry soil)  
( [Place of Sampling\*] 海底土放射能濃度 (Bq/kg·乾土) )

(100000Bq/kg)  
1.0E+05  
(10000Bq/kg)  
1.0E+04  
(1000Bq/kg)  
1.0E+03  
(100Bq/kg)  
1.0E+02  
(10Bq/kg)  
1.0E+01  
(1Bq/kg)  
1.0E+00  
(0.1Bq/kg)  
1.0E-01

*\*Please refer to the following page to see the list of sampling places.*

- Cs134
- Cs137
- Cs134(ND)
- Cs137(ND)

(Year/Month/Day)

※ (ND) indicates that measurement result is less than the lower detection limit. The detection limit may vary depending on the measurement environment and the characteristics of each measuring instrument.

List of Sampling Places - Seabed Soil (Cs-134 and Cs-137)

Japanese	English
福島第一 5,6号機放水口北側(T-1)	North of Unit 5/6 Drainage Outlet (T-1), 1F
福島第一 南放水口付近(T-2)	Near Southern Drainage Outlet (T-2), 1F
福島第二 北放水口付近(T-3)	Near Northern Drainage Outlet (T-3), 2F
岩沢海岸付近(T-4)	Near Iwasawa Seashore (T-4)
小高区沖合3km(T-14)	3 km Offshore of Odaka Ward (T-14)
岩沢海岸沖合3km(T-11)	3 km Offshore of Iwasawa Seashore (T-11)
請戸川沖合3km(T-D1)	3 km Offshore of Ukedo River (T-D1)
福島第一 敷地沖合3km(T-D5)	3 km Offshore of 1F Site (T-D5)
福島第二 敷地沖合3km(T-D9)	3 km Offshore of 2F Site (T-D9)
福島第一 敷地沖合15km(T-5)	15 km Offshore of 1F Site (T-5)
岩沢海岸沖合15km(T-7)	15 km Offshore of Iwasawa Seashore (T-7)
小名浜港沖合3km(T-18)	3 km Offshore of Onahama Port (T-18)
いわき市北部沖合3km(T-12)	3 km Offshore of Northern Part of Iwaki City (T-12)
夏井川沖合1km(T-17-1)	1 km Offshore of Natsui River (T-17-1)
豊間沖合3km(T-20)	3 km Offshore of Toyoma (T-20)
沼の内沖合5km(T-M10)	5 km Offshore of Numanouchi (T-M10)
新田川沖合1km(T-13-1)	1 km Offshore of Niida River (T-13-1)
相馬沖合3km(T-22)	3 km Offshore of Soma (T-22)
鹿島沖合5km(T-MA)	5 km Offshore of Kashima (T-MA)
小高区村上沖合1km(T-①)	1 km Offshore of Murakami, Odaka Ward (T-①)
小高区村上沖合2km(T-②)	2 km Offshore of Murakami, Odaka Ward (T-②)
浪江町請戸沖合1km(T-③)	1 km Offshore of Ukedo, Namie Town (T-③)
浪江町請戸沖合2km(T-④)	2 km Offshore of Ukedo, Namie Town (T-④)
浪江町請戸沖合3km(T-⑤)	3 km Offshore of Ukedo, Namie Town (T-⑤)
大熊町熊川沖合1km(T-⑥)	1 km Offshore of Kumagawa, Okuma Town (T-⑥)
大熊町熊川沖合2km(T-⑦)	2 km Offshore of Kumagawa, Okuma Town (T-⑦)
大熊町熊川沖合3km(T-⑧)	3 km Offshore of Kumagawa, Okuma Town (T-⑧)
大熊町熊川沖合5km(T-⑨)	5 km Offshore of Kumagawa, Okuma Town (T-⑨)
大熊町熊川沖合10km(T-⑩)	10 km Offshore of Kumagawa, Okuma Town (T-⑩)
大熊町熊川沖合15km(T-⑪)	15 km Offshore of Kumagawa, Okuma Town (T-⑪)
大熊町熊川沖合20km(T-⑫)	20 km Offshore of Kumagawa, Okuma Town (T-⑫)
楢葉町山田浜沖合1km(T-⑬)	1 km Offshore of Yamadahama, Naraha Town (T-⑬)
太田川沖合1km付近(T-S1)	Around 1 km Offshore of Ota River (T-S1)
請戸川沖合3km付近(T-S3)	Around 3 km Offshore of Ukedo River (T-S3)
福島第一 敷地沖合3km付近(T-S4)	Around 3 km Offshore of 1F Site (T-S4)
木戸川沖合2km付近(T-S5)	Around 2 km Offshore of Kido River (T-S5)
福島第二 敷地沖合2km付近(T-S7)	Around 2 km Offshore of 2F Site (T-S7)
熊川沖合4km付近(T-S8)	Around 4 km Offshore of Kuma River (T-S8)
小高区沖合15km付近(T-B1)	Around 15 km Offshore of Odaka Ward (T-B1)
請戸川沖合18km付近(T-B2)	Around 18 km Offshore of Ukedo River (T-B2)
福島第一 敷地沖合10km付近(T-B3)	Around 10 km Offshore of 1F Site (T-B3)
福島第二 敷地沖合10km付近(T-B4)	Around 10 km Offshore of 2F Site (T-B4)