

(News Release)

The Results of Radioactive Material Monitoring of the Surface Water Bodies
within Tokyo, Saitama, and Chiba Prefectures
(July-September Samples)

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In accordance with the Comprehensive Radiation Monitoring Plan determined by the Monitoring Coordination Meeting, the Ministry of the Environment (MOE) is continuing to monitor radioactive materials in water environments (surface water bodies (rivers, lakes and headwaters, and coasts), etc.).

Samples taken from the surface water bodies of Tokyo, Saitama, and Chiba Prefectures during the period of July 17-September 12, 2013 have been measured as part of MOE's efforts to monitor radioactive materials; the results have recently been compiled and are released here.

The monitoring results of radioactive materials in surface water bodies carried out to date can be found at the following web page: <http://www.env.go.jp/jishin/rmp.html#monitoring>

1. Survey Overview

(1) Survey Locations

67 environmental reference points, etc. in the surface water bodies within Tokyo, Saitama, and Chiba Prefectures

(Rivers: 51 locations, Lakes and headwaters: 8, Coasts: 8 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive cesium (Cs-134 and Cs-137)) in water and sediment
- Measurement of concentrations of radioactive materials and spatial dose-rate in soil in the surrounding environment of water and sediment sample collection points (river terraces, etc.)

2. Outline of Results (* denotes the results of the previous survey (May-June 2013))

(1) Water Quality (Lower detection limit: 1Bq/L)

Cs-134+Cs-137: Not detectable (ND) at any location (*ND at any location)

<Reference>

Specification and Standards for Food, Food Additives, etc. in accordance with the Food Sanitation Act (Drinking Water) (Ministry of Health, Labour and Welfare Public Notice No.130, March 15, 2012)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

Target value for radioactive materials in tap water (management target for water supply facilities) (March 5, 2012; 0305 Notice No.1 from the Director of the Water Supply Division, Health Service Bureau, Ministry of Health, Labour and Welfare)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

(2) Sediment (Lower detection limit: 10Bq/kg (dried mud))

Overall, the levels were around 1,500Bq/kg or below at most of the locations (coasts: 500Bq/kg or below at most of the locations), and generally have declined or remained constant.

(Rivers)

Cs-134 + Cs-137: 19-7,600Bq/kg (dried mud) (*20-7,900Bq/kg (dried mud))

(Lakes)

Cs-134 + Cs-137: 195-3,800Bq/kg (dried mud) (*151-2,530Bq/kg (dried mud))

(Coasts)

Cs-134 + Cs-137: ND-580Bq/kg (dried mud) (*ND-226Bq/kg (dried mud))

<Reference> Number of locations by radioactive cesium concentration (500Bq/kg)
Numbers in () denote results measured on the previous occasion.

	500 or below	501 -1,000	1,001 -1,500	1,501 -2,000	2,001 -2,500	2,501 -3,000	3,001 or more	Total
Rivers	27 (27)	10 (8)	5 (2)	7 (6)	2 (1)	2 (2)	6 (5)	59 (51)
Lakes and headwaters	6 (5)	0 (2)	1 (0)	0 (0)	0 (0)	0 (1)	1 (0)	8 (8)
Coasts	12 (8)	2 (0)	-	-	-	-	-	14 (8)

(3) Surrounding Environment (Lower detection limit: 10Bq/kg (dry))

(Rivers)

Cs-134 + Cs-137: 62-3,700Bq/kg (dry) (*38-3,700Bq/kg (dry))

Spatial dose: 0.04-0.21μSv/h

(Lakes)

Cs-134 + Cs-137: 570-2,220Bq/kg (dry) (*810-2,070Bq/kg (dry))

Spatial dose: 0.10-0.15μSv/h

(Annex for details)
(Map attached)

Future Plans

MOE intends to continue to measure radioactive materials in water, sediment, etc. in rivers, lakes, etc. since concentrations of radioactive materials seem to show fluctuations, depending on locations, due to minor differences in sampling points or properties of samples of each survey.

ORiver: Water Quality Monitoring Results

(Annex)

No.	Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks	
	Water body	Point	Municipality	Sampling depth (m)				Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium				
												Cs-134	Cs-137			
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2013/8/1	Cloudy	2.1	0.0	22	28	18	14	<1	<1		
2			Shinbeibashi Bridge		2013/8/1	Cloudy	0.5	0.0	16	26	36	19	<1	<1		
3			Intake at Maeshinden Water Purification Plant		2013/8/1	Cloudy	0.5	0.0	18	29	34	29	<1	<1		
4		Nagatogawa River	Nagatobashi Bridge	Sakaemachi Town	2013/8/1	Cloudy	0.3	0.0	18	25	25	17	<1	<1		
5			Fujimibashi Bridge		2013/8/2	Cloudy	1.2	0.0	37	19	13	8	<1	<1		
6		Ryudagawa River	Ryumatsunohashi Bridge	Naritashi City/Sakaemachi Town	2013/8/2	Cloudy	0.2	0.0	41	55	30	11	<1	<1		
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2013/8/2	Cloudy	2.0	0.0	43	125	12	8	<1	<1		
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/8/6	Cloudy	0.3	0.0	84	30	5	3	<1	<1		
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2013/8/9	Cloudy	0.3	0.0	47	21	12	5	<1	<1		
10			Kaminumabashi Bridge	Kashiwashi City	2013/8/6	Cloudy	0.6	0.0	33	45	14	8	<1	<1		
11		Someiritoshi	Someishinbashi Bridge	Kamagayashi City/Usuishi-City	2013/8/13	Cloudy	0.2	0.0	53	35	11	6	<1	<1		
12			Downstream of Karuizawasakaibashi Bridge		2013/8/9	Sunny	0.1	0.0	58	37	6	2	<1	<1		
13		Kanayamaotoshi	Nauchibashi Bridge	Usuishi-City	2013/8/6	Cloudy	0.6	0.0	37	33	25	9	<1	<1		
14					Kamenaribashi Bridge	Inzaishi City	2013/8/6	Cloudy	0.8	0.0	40	33	12	7	<1	<1
15	Feeder Rivers of Inbanuma Lake	Igusasuuro Channel	Downstream of Igusasuuro Channel	Kamagayashi City/Ichikawashi City	2013/8/9	Sunny	0.1	0.0	87	21	5	5	<1	<1		
16		Futaogawa River	Tomigayabashi Bridge	Funabashishi City/Usuishi-City	2013/8/9	Sunny	0.2	0.0	67	43	6	4	<1	<1		
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2013/8/8	Cloudy	1.6	0.0	26	28	10	5	<1	<1		
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2013/8/8	Sunny	0.4	0.0	77	37	6	5	<1	<1		
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Sakurashi City	2013/8/8	Cloudy	3.3	0.0	26	27	17	8	<1	<1		
20		Tegurigawa River	Mumeibashi Bridge		2013/8/8	Sunny	0.6	0.0	95	34	6	3	<1	<1		
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2013/8/7	Sunny	1.2	0.0	48	21	7	6	<1	<1		
22		Kashimogawa River	Iwatombashi Bridge	Sakurashi City	2013/8/7	Sunny	0.6	0.0	42	24	19	6	<1	<1		
23		Takasakigawa River	Ryutobashi Bridge		2013/8/7	Sunny	0.8	0.0	52	27	9	6	<1	<1		
24		Kashimogawa River	Kashimabashi Bridge		2013/8/7	Sunny	2.8	0.0	40	23	11	6	<1	<1		
25	Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2013/8/2	Cloudy	2.6	0.0	20	27	33	17	<1	<1			
26	E d o g a w a R i v e r S y s t e m	Ungueung Canal	Ungueung Bridge	Nagareyamashi City/Nodashi City	2013/8/12	Cloudy	0.2	0.0	28	58	23	7	<1	<1		
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2013/8/12	Cloudy	0.1	0.0	35	23	10	5	<1	<1		
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2013/8/12	Sunny	2.3	0.0	53	21	6	4	<1	<1		
29		Shinsakagawa River	Sakanebashi Bridge		2013/8/12	Sunny	0.8	0.0	44	28	10	5	<1	<1		
30		Edogawa River	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2013/8/16	Sunny	0.6	0.0	37	21	8	8	<1	<1		
31					Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2013/8/16	Cloudy	0.8	0.0	34	21	18	9	<1	<1
32			Edogawa River	Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2013/8/19	Sunny	3.5	0.0	28	24	14	4	<1	<1	
33						2013/7/17	Cloudy	4.5	0.0	34	26	8	5	<1	<1	
34						2013/8/19	Sunny	3.5	0.0	34	46	10	8	<1	<1	
35						2013/9/11	Cloudy	4.2	0.0	44	21	13	8	<1	<1	
36			Kyuedogawa River	Shingyotokubashi Bridge	Ichikawashi City/Edogawa City	2013/8/20	Sunny	0.2	0.0	29	3,180	12	14	<1	<1	
37				Edogawa Floodgate, down		2013/8/19	Sunny	4.4	0.0	44	134	7	4	<1	<1	
38				8 km Point to the estuary		2013/8/19	Sunny	2.9	0.0	35	132	12	5	<1	<1	
39				Imabashi Bridge		2013/8/19	Sunny	4.1	0.0	41	325	11	5	<1	<1	
40		Urayasubashi Bridge		Urayasushi City/Edogawa City		2013/7/17	Cloudy	1.9	0.0	44	230	4	3	<1	<1	
41						2013/8/27	Sunny	2.3	0.0	55	160	8	4	<1	<1	
42	2013/9/11	Cloudy	2.1	0.0	45	252	10	7	<1	<1						
43	Mamagawa River	Nemoto Floodgate	Ichikawashi City	2013/8/16	Sunny	1.2	0.0	38	22	10	7	<1	<1			
44	Kokubugawa River	Suwadabashi Bridge		2013/8/16	Sunny	1.2	0.0	48	58	6	6	<1	<1			
45	Harukigawa River	Before the confluence with Kokubugawa River		2013/8/16	Sunny	0.9	0.0	47	71	8	6	<1	<1			
46	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2013/8/14	Sunny	0.3	0.0	>100	46	4	3	<1	<1			
47	Miyakogawa River	Miyakobashi Bridge	Ichikawashi City	2013/8/16	Sunny	1.8	0.0	51	41	5	5	<1	<1			
48				2013/7/17	Cloudy	3.3	0.0	32	150	8	5	<1	<1			
49				2013/8/14	Sunny	3.2	0.0	77	413	3	3	<1	<1			
50				2013/9/11	Cloudy	3.0	0.0	69	572	6	4	<1	<1			
51	Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2013/8/14	Sunny	2.4	0.0	>100	940	3	4	<1	<1			
52	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2013/7/17	Cloudy	2.9	0.0	21	1,585	9	6	<1	<1			
53				2013/8/14	Sunny	3.2	0.0	25	1,280	10	11	<1	<1			
54				2013/9/11	Cloudy	2.8	0.0	62	741	8	6	<1	<1			
55				2013/8/14	Sunny	2.8	0.0	>100	1,539	3	3	<1	<1			
56	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2013/8/21	Cloudy	2.1	0.0	24	17	30	10	<1	<1		
57					2013/8/21	Cloudy	0.3	0.0	50	28	8	5	<1	<1		
58		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2013/8/20	Sunny	1.4	0.0	26	1,256	9	3	<1	<1		
59					Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2013/8/27	Cloudy	3.0	0.0	50	1,041	10	4	<1

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

ORiver: Sediment Monitoring Results

No.	Sampling point			Sampling date	Weather	Full depth (m)	General items					Remarks	
	Point	Municipality	Mud sampling depth (cm)				Mud content %	Property	Radioactive cesium Cs-134	Cs-137	Total		
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	2013/8/1	Cloudy	2.1	6.0	38	Silt	550	1200	1750	
2			Shinbeibashi Bridge	2013/8/1	Cloudy	0.5	3.0	80	Sand/gravel	20	36	56	
3			Intake at Maeshinden Water Purification Plant	2013/8/1	Cloudy	0.5	5.0	62	Sand/silt	70	140	210	
4		Nagatogawa River	Nagatobashi Bridge	2013/8/1	Cloudy	0.3	5.0	75	Sand	77	140	217	
5			Fujimibashi Bridge	2013/8/2	Cloudy	1.2	3.0	56	Silt/sand	120	250	370	
6		Ryudagawa River	Ryumatsunohashi Bridge	Naritashi City/Sakaemachi Town	2013/8/2	Cloudy	0.2	3.0	78	Sand/gravel	57	120	177
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2013/8/2	Cloudy	2.0	5.0	29	Silt	410	920	1330
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/8/6	Cloudy	0.3	7.0	35	Silt/sand	2400	5200	7600
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2013/8/9	Cloudy	0.3	3.0	62	Sand/gravel	390	860	1250
10			Kaminumabashi Bridge	Kashiwashi City	2013/8/6	Cloudy	0.6	5.0	27	Silt	2000	4000	6000
11		Someiriotoshi	Someishinbashi Bridge		2013/8/13	Cloudy	0.2	3.0	73	Sand/gravel	150	280	430
12		Kanayamaotoshi	Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Usuishi-City	2013/8/9	Sunny	0.1	3.0	77	Sand/gravel	230	590	820
13			Nauchibashi Bridge	Usuishi-City	2013/8/6	Cloudy	0.6	5.0	72	Sand/silt	370	800	1170
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2013/8/6	Cloudy	0.8	5.0	41	Silt/sand	880	1800	2680
15	Feeder Rivers of Inbanuma Lake	Igusasuuro Channel	Downstream of Igusasuuro Channel	Kamagayashi City/Ichikawashi City	2013/8/9	Sunny	0.1	2.0	75	Sand/gravel	590	1300	1890
16		Futaogawa River	Tomigayabashi Bridge	Funabashishi City/Usuishi-City	2013/8/9	Sunny	0.2	3.0	69	Sand	480	1000	1480
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2013/8/8	Cloudy	1.6	4.0	58	Sand/silt	590	1200	1790
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2013/8/8	Sunny	0.4	7.0	36	Silt	880	1900	2780
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge		2013/8/8	Cloudy	3.3	5.0	54	Silt/sand	71	160	231
20		Tegurigawa River	Mumeibashi Bridge	Sakurashi City	2013/8/8	Sunny	0.6	4.0	74	Sand	600	1300	1900
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2013/8/7	Sunny	1.2	7.0	25	Silt	620	1400	2020
22	Kashimawaga River	Iwatombashi Bridge		2013/8/7	Sunny	0.6	3.0	74	Sand/silt	97	210	307	
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2013/8/7	Sunny	0.8	3.0	56	Silt/sand	170	380	550
24		Kashimawaga River	Kashimabashi Bridge		2013/8/7	Sunny	2.8	2.0	73	Sand	39	88	127
25		Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2013/8/2	Cloudy	2.6	5.0	56	Silt	32	49	81
26		Toneunga Canal	Ungabashi Bridge	Nagareyamashi City/Nodashi City	2013/8/12	Cloudy	0.2	3.0	40	Silt/sand	780	1700	2480
27	E d o g a w a R i v e r S y s t e m	Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2013/8/12	Cloudy	0.1	5.0	48	Silt/sand	140	310	450
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2013/8/12	Sunny	2.3	6.0	67	Sand/silt	940	2100	3040
29		Shinsakagawa River	Sakanebashi Bridge		2013/8/12	Sunny	0.8	2.0	75	Sand	650	1300	1950
30		Edogawa River	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2013/8/16	Sunny	0.6	4.0	60	Silt/sand	270	550	820
31			Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2013/8/16	Cloudy	0.8	3.0	78	Sand/gravel	66	140	206
32			Vicinity of Keiyo Road		2013/8/19	Sunny	3.5	3.0	64	Sand/silt	110	220	330
33			Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2013/7/17	Cloudy	4.5	9.0	53	Silt	170	380	550
34			Shingyotokubashi Bridge		2013/8/19	Sunny	3.5	6.0	47	Silt/sand	180	400	580
35		Edogawa Floodgate, down		2013/9/11	Cloudy	4.2	6.0	39	Silt	290	670	960	
36		Kyuedogawa River	8km Point to the estuary	Ichikawashi City/Edogawa City	2013/8/20	Sunny	0.2	5.0	71	Sand	<10	19	19
37			Edogawa Floodgate, down		2013/8/19	Sunny	4.4	4.0	76	Sand	26	58	84
38			Imabashi Bridge		2013/8/19	Sunny	2.9	4.0	62	Sand/silt	100	210	310
39		Urayasubashi Bridge		Urayasushi City/Edogawa City	2013/8/19	Sunny	4.1	3.0	64	Sand	37	71	108
40				2013/7/17	Cloudy	1.9	5.0	41	Silt	110	270	380	
41	Mamagawa River			2013/8/27	Sunny	2.3	7.0	37	Silt	230	470	700	
42				2013/9/11	Cloudy	2.1	8.0	36	Silt	260	590	850	
43	Mamagawa River	Nemoto Floodgate		2013/8/16	Sunny	1.2	3.0	79	Sand	150	330	480	
44		Suwadabashi Bridge	Ichikawashi City	2013/8/16	Sunny	1.2	3.0	74	Sand	220	510	730	
45	Miyakogawa River	Harukigawa River	Before the confluence with Kokubugawa River	2013/8/16	Sunny	0.9	3.0	69	Sand	220	490	710	
46		Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2013/8/14	Sunny	0.3	3.0	79	Sand/gravel	110	240	350
47	Miyakogawa River	Okashiwagawa River	Sengenbashi Bridge		2013/8/16	Sunny	1.8	2.0	79	Sand/gravel	130	280	410
48		Mamagawa River		Ichikawashi City	2013/7/17	Cloudy	3.3	6.0	29	Silt	1500	3400	4900
49					2013/8/14	Sunny	3.2	7.0	27	Silt	1900	4000	5900
50	Ebigawa River			2013/9/11	Cloudy	3.0	3.0	33	Silt	910	2100	3010	
51				2013/8/14	Sunny	2.4	4.0	69	Sand/silt	140	320	460	
52	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2013/7/17	Cloudy	2.9	7.0	40	Silt/sand	540	1100	1640	
53				2013/8/14	Sunny	3.2	4.0	41	Silt/sand	350	780	1130	
54				2013/9/11	Cloudy	2.8	3.0	42	Silt/sand	480	1200	1680	
55	2013/8/14	Sunny	2.8	6.0	62	Sand/silt	79	180	259				
56	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2013/8/21	Cloudy	2.1	3.0	76	Sand/gravel	11	27	38
57		Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City/Wakoshi City/Itabashi City	2013/8/21	Cloudy	0.3	2.0	76	Sand	13	36	49
58	Arakawa River System	Kasaibashi Bridge		Koto City/Edogawa City	2013/8/20	Sunny	1.4	7.0	39	Silt	25	50	75
59					Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2013/8/27	Cloudy	3.0	5.0	49	Silt

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

ORiver: Surrounding Environment Monitoring Results

No.	Water body	Sampling point			Sampling date	Weather	Property	Left bank				Right bank				Remarks							
		Water body	Point	Municipality				Concentration of radioactive material [Bq/kg (dry)]							Property		Concentration of radioactive material [Bq/kg (dry)]						
								Radioactive cesium			Air dose (μ Sv/h)	Radioactive cesium					Air dose (μ Sv/h)	Radioactive cesium					
								Cs-134	Cs-137	Total		Cs-134	Cs-137	Total									
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2013/8/1	Cloudy	Loamy	420	900	1320	0.12	Loamy	160	350	510	0.16							
2		Shinbeibashi Bridge			2013/8/1	Cloudy	Loamy	95	220	315	0.09	Loamy	170	360	530	0.09							
3		Intake at Maeshinden Water Purification Plant			2013/8/1	Cloudy	Loamy	250	550	800	0.10	Loamy	80	200	280	0.07							
4		Nagatogawa River	Nagatobashi Bridge		2013/8/1	Cloudy	Loamy	21	45	66	0.05	Loamy	140	310	450	0.09							
5		Fujimbashi Bridge	Sakaemachi Town		2013/8/2	Cloudy	Loamy	190	390	580	0.09	Loamy	200	460	660	0.09							
6		Ryudaigawa River	Ryumasunohashi Bridge	Naritashi City/Sakaemachi Town		2013/8/2	Cloudy	Loamy	150	330	480	0.10	Loamy	160	360	520	0.11						
7	Nokonagawa River	Shinkawa Floodgate	Naritashi City		2013/8/2	Cloudy	Loamy	110	250	360	0.08	Loamy	60	140	200	0.07							
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/8/6	Cloudy	Loamy	410	820	1230	0.18	Loamy	1,200	2,500	3,700	0.21							
9		Sannobashi Bridge, under	Kamagayashi City		2013/8/9	Cloudy	Loamy	460	950	1410	0.16	Loamy	230	500	730	0.14							
10		Otsugawa River	Kaminumabashi Bridge	Kashiwashi City		2013/8/6	Cloudy	Loamy	330	720	1050	0.15	Loamy	300	670	970	0.11						
11		Someiritoshi	Someishimbashi Bridge			2013/8/13	Cloudy	Loamy	380	850	1230	0.09	Loamy	380	770	1,150	0.09						
12		Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Usuisi-City			2013/8/9	Sunny	Loamy	360	900	1260	0.12	Loamy	530	1,200	1,730	0.11						
13		Kanayamaotoshi	Nauchibashi Bridge	Usuisi-City		2013/8/6	Cloudy	Loamy	220	460	680	0.11	Loamy	520	1,200	1,720	0.15						
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City		2013/8/6	Cloudy	Loamy	210	400	610	0.12	Loamy	230	520	750	0.12						
15	Feeder Rivers of Inbanuma Lake	Igusasu Channel	Downstream of Igusasu Channel	Kamagayashi City/Ichikawashi City	2013/8/9	Sunny	Loamy	250	500	750	0.12	Loamy	190	400	590	0.10							
16		Futaogawa River	Tomigayabashi Bridge	Funabashishi City/Usuisi-City		2013/8/9	Sunny	Loamy	410	900	1310	0.11	Loamy	400	870	1,270	0.11						
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City		2013/8/8	Cloudy	Loamy	220	480	700	0.10	Loamy	240	540	780	0.09						
18		Kannogawa River	Kannobashi Bridge			2013/8/8	Sunny	Loamy	290	580	870	0.09	Loamy	310	680	990	0.11						
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City		2013/8/8	Cloudy	Loamy	280	590	870	0.10	Loamy	300	670	970	0.10						
20		Tegurigawa River	Mumeibashi Bridge	Sakurashi City		2013/8/8	Sunny	Loamy	230	480	710	0.11	Loamy	220	470	690	0.11						
21		Morotogawa River	Morotobashi Bridge	Inzaishi City		2013/8/7	Sunny	Loamy	150	250	400	0.08	Loamy	200	440	640	0.11						
22		Kashimaga River	Iwatomibashi Bridge			2013/8/7	Sunny	Loamy	69	130	199	0.06	Loamy	90	190	280	0.07						
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City		2013/8/7	Sunny	Loamy	120	260	380	0.07	Loamy	110	260	370	0.06						
24		Kashimaga River	Kashimabashi Bridge			2013/8/7	Sunny	Loamy	84	180	264	0.07	Loamy	140	310	450	0.07						
25	Inhasu Channel	Tsurumakibashi Bridge	Inzaishi City		2013/8/2	Cloudy	Loamy	250	560	810	0.12	Loamy	100	210	310	0.13							
26	Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City/Nodashi City	2013/8/12	Cloudy	Loamy	410	930	1340	0.16	Loamy	520	1,100	1,620	0.16							
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City		2013/8/12	Cloudy	Loamy	260	530	790	0.18	Loamy	300	620	920	0.14						
28		Sakagawa River	Bentenbashi Bridge			2013/8/12	Sunny	-	-	-	-	0.13	-	-	-	-	0.12	Soil not exposed					
29		Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City		2013/8/12	Sunny	-	-	-	-	0.08	-	-	-	-	0.08	Soil not exposed					
30		Edogawa River	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City		2013/8/16	Sunny	Loamy	380	860	1240	0.13	Loamy	400	880	1,280	0.14						
31			Ichikawabashi Bridge			2013/8/16	Cloudy	Loamy	320	730	1050	0.13	Loamy	700	1,500	2,200	0.18						
32			Vicinity of Keiyo Road			2013/8/19	Sunny	Loamy	270	580	850	0.12	Loamy	360	810	1,170	0.13						
33			Gyotoku Movable Weir (upper reaches)			2013/7/17	Cloudy	Loamy	91	220	311	0.10	Loamy	280	620	900	0.12						
						2013/8/19	Sunny	Loamy	260	560	820	0.11	Loamy	230	540	770	0.12						
						2013/9/11	Cloudy	Loamy	260	550	810	0.10	Loamy	340	750	1,090	0.11						
34			Shingyotokubashi Bridge			2013/8/20	Sunny	Loamy	68	150	218	0.08	Loamy	21	46	67	0.06						
35			Edogawa Floodgate, down			2013/8/19	Sunny	Loamy	430	960	1390	0.12	Loamy	140	340	480	0.11						
36			Point at 8 km to the estuary			2013/8/19	Sunny	Loamy	330	700	1030	0.12	Loamy	380	830	1,210	0.11						
37			Imaibashi Bridge			2013/8/19	Sunny	-	-	-	-	-	0.07	Loamy	280	630	910	0.12	(Left bank) Soil not exposed				
					2013/7/17	Cloudy	Loamy	1,000	2,300	3300	0.07	Loamy	170	300	470	0.12							
38	Urayasubashi Bridge			2013/8/27	Sunny	Loamy	880	1,900	2780	0.10	Loamy	150	340	490	0.10								
				2013/9/11	Cloudy	Loamy	510	1,100	1610	0.08	Loamy	360	780	1,140	0.09								
39	Mamagawa River	Nemoto Floodgate			2013/8/16	Sunny	Loamy	910	2,000	2910	0.11	-	-	-	-	0.07	(Right bank) Soil not exposed						
40	Kokubugawa River	Suwabashi Bridge	Ichikawashi City		2013/8/16	Sunny	-	-	-	-	0.08	-	-	-	-	0.09	Soil not exposed						
41	Harukigawa River	Before the confluence with Kokubugawa River			2013/8/16	Sunny	-	-	-	-	0.09	-	-	-	-	0.09	Soil not exposed						
42	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City		2013/8/14	Sunny	Loamy	160	360	520	0.08	Loamy	210	460	670	0.11							
43	Okashiwagawa River	Sengenbashi Bridge			2013/8/16	Sunny	-	-	-	-	0.05	-	-	-	-	0.05							
				2013/7/17	Cloudy	Loamy	210	480	690	0.07	Loamy	150	340	490	0.07								
44	Mamagawa River	Mitomebashi Bridge	Ichikawashi City		2013/8/14	Sunny	Loamy	160	360	520	0.07	Loamy	110	250	360	0.07							
				2013/9/11	Cloudy	Loamy	160	350	510	0.07	Loamy	130	290	420	0.07								
45	Ebigawa River	Yachiyobashi Bridge	Funabashishi City		2013/8/14	Sunny	Loamy	200	380	580	0.06	Loamy	320	630	950	0.07							
				2013/7/17	Cloudy	Loamy	140	300	440	0.09	Loamy	130	270	400	0.08								
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City		2013/8/14	Sunny	Loamy	180	400	580	0.09	Loamy	180	400	580	0.07							
				2013/9/11	Cloudy	Loamy	150	270	420	0.09	Loamy	140	320	460	0.08								
47	Miyakogawa River	Miyakobashi Bridge			2013/8/14	Sunny	Loamy	38	95	133	0.07	Loamy	170	390	560	0.07							
48	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2013/8/21	Cloudy	Loamy	20	42	62	0.06	Loamy	27	47	74	0.06							
49		Arakawa River Lower Reaches	Sasamebashi Bridge	Todashi City/Wakoshi City/Itabashi City		2013/8/21	Cloudy	Loamy	96	200	296	0.05	Loamy	77	150	227	0.06						
50		Kasaihashi Bridge			2013/8/20	Sunny	Loamy	230	520	750	0.09	Loamy	240	540	780	0.11							
51	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City		2013/8/27	Cloudy	-	-	-	-	0.04	-	-	-	-	0.06	Soil not exposed						

* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

* Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

* Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

* Radioactive materials concentrations contain some measurement errors but are not noted here.

○Lake and Headwater: Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Point						Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs-134	Cs-137	
1	Teganuma Lake	Fusashita	Surface layer	2013/8/13	Cloudy	2.5	0.5	0.4	26	23	24	<1	<1	
			Lower layer				1.5		27	29	20	<1	<1	
2	Teganuma Lake	Shimoteganuma Chuo	Surface layer	2013/8/13	Cloudy	1.7	0.5	0.4	31	32	25	<1	<1	
			Lower layer				0.7		32	32	20	<1	<1	
3	Teganuma Lake	Teganuma Chuo	Surface layer	2013/8/13	Sunny	1.7	0.5	0.4	25	29	26	<1	<1	
			Lower layer				0.7		26	29	17	<1	<1	
4	Teganuma Lake	Nedoshita	Surface layer	2013/8/13	Sunny	2.3	0.5	0.7	22	13	7	<1	<1	
			Lower layer				1.3		23	6	7	<1	<1	
5	Inbanuma Lake	Kita Inbanuma Chuo	Surface layer	2013/8/13	Cloudy	1.6	0.5	0.4	29	40	37	<1	<1	
			Lower layer				0.6		30	40	36	<1	<1	
6	Inbanuma Lake	Ipponmatsushita	Surface layer	2013/8/13	Cloudy	2.6	0.5	0.5	27	19	12	<1	<1	
			Lower layer				1.6		27	22	17	<1	<1	
7	Inbanuma Lake	Lower area of Josuido water intake	Surface layer	2013/8/13	Cloudy	1.7	0.5	0.4	24	34	18	<1	<1	
			Lower layer				0.7		23	30	18	<1	<1	
8	Inbanuma Lake	Asobashi Bridge	Surface layer	2013/8/13	Cloudy	1.8	0.5	0.4	25	13	10	<1	<1	
			Lower layer				0.8		26	14	11	<1	<1	

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

○Lake and Headwater: Sediment and Surrounding Environment (Lake Shore) Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	Sediment					Surrounding environment (lake shore)					Remarks	
No.	Point						General items			Concentration of radioactive material [Bq/kg (dried m			Soil					
							Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)				Air dose (μSv/h)
Cs-134	Cs-137	Total	Cs-134	Cs-137	Total													
1	Teganuma Lake	Fusashita	2013/8/13	Cloudy	2.5	4	41	Clay/gravel	140	300	440	-	-	-	-	-	Mud sampling points not determined	
2		Shimoteganuma Chuo	2013/8/13	Cloudy	1.7	8	45	Silt/sand	99	250	349	Loamy	270	630	900	0.10		
3		Teganuma Chuo	2013/8/13	Sunny	1.7	9	23	Silt	370	830	1,200	-	-	-	-	-	Mud sampling points not determined	
4	Teganuma Lake	Nedoshita	2013/8/13	Sunny	2.3	8	32	Silt	1,200	2,600	3,800	Loamy	720	1,500	2,220	0.15		
5	Inbanuma Lake	Kita Inbanuma Chuo	2013/8/13	Cloudy	1.6	5	24	Silt	65	130	195	Loamy	310	660	970	0.15		
6		Ipponmatsushita	2013/8/13	Cloudy	2.6	7	25	Silt	130	310	440	-	-	-	-	-	Mud sampling points not determined	
7		Lower area of Josuido water intake	2013/8/13	Cloudy	1.7	6	30	Silt	71	180	251	-	-	-	-	-	Mud sampling points not determined	
8		Asobashi Bridge	2013/8/13	Cloudy	1.8	2	57	Sand	100	260	360	Loamy	180	390	570	0.10		

• Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

• Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

• Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

○Coast: Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items				Radioactive material concentrations (Bq/L)		Remarks	
No.	Water body					Sampling depth (m)	Secchi disk depth (m)	Salinity (%)	SS (mg/L)	Turbidity	Radioactive cesium		
											Cs-134		Cs-137
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	Surface layer	2013/8/5	Sunny	9.5	0.5	2.5	24	4	2	<1	<1
			Lower layer				8.5		25	4	2	<1	<1
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	Surface layer	2013/8/5	Sunny	8.0	0.5	2.4	24	4	3	<1	<1
			Lower layer				7.0		25	4	2	<1	<1
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	Surface layer	2013/7/1	Cloudy	4.9	0.5	1.3	22	10	17	<1	<1
			Lower layer				3.9		25	10	14	<1	<1
			Surface layer	2013/8/5	Sunny	4.0	0.5	2.0	22	10	8	<1	<1
			Lower layer				3.0		22	8	7	<1	<1
			Surface layer	2013/9/3	Sunny	4.2	0.5	1.9	21	4	3	<1	<1
			Lower layer				3.2		25	7	2	<1	<1
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	Surface layer	2013/8/5	Sunny	5.8	0.5	1.9	23	7	4	<1	<1
			Lower layer				4.8		23	6	5	<1	<1
5	Approx. 1 km offshore of Edogawa River Estuary		Surface layer	2013/8/5	Sunny	2.5	0.5	1.9	23	8	6	<1	<1
			Lower layer				1.5		23	10	5	<1	<1
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	Surface layer	2013/7/18	Sunny	8.3	0.5	0.8	18	11	8	<1	<1
			Lower layer				7.3		22	4	3	<1	<1
			Surface layer	2013/8/15	Sunny	8.4	0.5	0.6	19	9	16	<1	<1
			Lower layer				7.4		26	5	4	<1	<1
			Surface layer	2013/9/12	Sunny	8.2	0.5	0.8	12	6	7	<1	<1
			Lower layer				7.2		26	4	4	<1	<1
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	Surface layer	2013/7/18	Cloudy	5.3	0.5	0.7	23	13	9	<1	<1
			Lower layer				4.3		26	5	4	<1	<1
			Surface layer	2013/8/15	Sunny	6.0	0.5	0.7	15	10	16	<1	<1
			Lower layer				5.0		23	6	6	<1	<1
			Surface layer	2013/9/12	Sunny	5.8	0.5	0.6	16	12	13	<1	<1
			Lower layer				4.8		23	8	6	<1	<1
8	Southwestern area of Toyosu Wharf	Offshore of Sumidagawa River Estuary	Surface layer	2013/8/15	Sunny	10.9	0.5	0.6	19	10	9	<1	<1
			Lower layer				9.9		28	3	2	<1	<1

- Sampling points are listed from north to south.
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○Coast: Sediment Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items		Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body					Mud content %	Property	Radioactive cesium			
								Cs-134	Cs-137	Total	
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	2013/8/5	Sunny	9.5	33	Silt/clay	<10	<10	-	
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	2013/8/5	Sunny	8.0	35	Silt	10	20	30	
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	2013/7/1	Cloudy	4.9	67	Sand/silt	<10	17	17	
			2013/8/5	Sunny	4.0	62	Silt/sand	15	37	52	
			2013/9/3	Sunny	4.2	60	Sand/silt	<10	15	15	
			2013/8/5	Sunny	5.8	59	Silt/sand/clay	<10	<10	-	
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	2013/8/5	Sunny	2.5	70	Sand	<10	<10	-	
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	2013/7/18	Sunny	8.3	46	Silt	140	310	450	
			2013/8/15	Sunny	8.4	42	Silt	170	380	550	
			2013/9/12	Sunny	8.2	36	Silt	180	400	580	
			2013/7/18	Cloudy	5.3	48	Silt	110	220	330	
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	2013/8/15	Sunny	6.0	47	Silt	100	230	330	
			2013/9/12	Sunny	5.8	45	Silt	92	240	332	
			2013/8/15	Sunny	10.9	24	Silt	35	65	100	

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