

(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 13-September 11, 2012 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

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

(Rivers: 51 locations, Lakes: 8 locations, Coasts: 5 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive cesium (Cs-134 and Cs-137), etc.) 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 2012))

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

(Rivers)

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

Cs-137: ND-1Bq/L

(*ND at any location)

(Lakes and headwaters)

Cs-134, Cs-137: ND at any location

(*ND at any location)

(Coasts)

Cs-134, Cs-137: 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))

(Rivers)

Cs-134: 10-5,400Bq/kg (dried mud)

Cs-137: 15-8,600Bq/kg (dried mud)

(*Cs-134: ND-8,200Bq/kg (dried mud))

(*Cs-137: 19-12,000Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134: 250-2,900Bq/kg (dried mud)

Cs-137: 380-4,700Bq/kg (dried mud)

(*Cs-134: 220-2,200Bq/kg (dried mud))

(*Cs-137: 380-3,100Bq/kg (dried mud))

(Coasts)

Cs-134: ND-150Bq/kg (dried mud)

Cs-137: ND-250Bq/kg (dried mud)

(*Cs-134: ND-190Bq/kg (dried mud))

(*Cs-137: ND-300Bq/kg (dried mud))

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

(Rivers)

Cs-134: 16-4,000Bq/kg (dry)

Cs-137: 32-6,200Bq/kg (dry)

(*Cs-134: 15-1,700Bq/kg (dry))

(*Cs-137: 21-2,400Bq/kg (dry))

Spatial dose: 0.06-0.33μSv/h

(Lakes and headwaters)

Cs-134: 170-590Bq/kg (dry)

Cs-137: 260-950Bq/kg (dry)

(*Cs-134: 100-470Bq/kg (dry))

(*Cs-137: 150-740Bq/kg (dry))

Spatial dose: 0.11-0.20μSv/h

(Annex for details)

(Map attached)

Future Plans

In coordination with relevant organizations, MOE intends to continue to measure radioactive materials in water, sediment, etc. in rivers, lakes, etc. in Fukushima Prefecture, its neighboring prefectures, etc.

○River: Water Quality Monitoring Results

(Annex)

No.	Sampling point				Sampling date	Weather	Full depth m	General items					Concentration of radioactive material Bq/L			Remarks
	Water body	Point	Municipality	Sampling depth m				Transparency cm	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137		
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	1.5	0.0	14	3	8	3	<30	<1	<1	
2			Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.5	0.0	24	2	7	2	<30	<1	<1	
3			Intake at Maeshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.4	0.0	26	3	12	4	<30	<1	<1	
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.3	0.0	24	2	12	4	<30	<1	<1	
5			Fujimibashi Bridge	Sakaemachi Town	2012/8/1	Cloudy	0.3	0.0	29	2	14	4	<30	<1	<1	
6		Ryudaigawa River	Ryumatsunohashi Bridge	Naritashi City/Sakaemachi Town	2012/8/1	Cloudy	0.2	0.0	50	5	11	4	<30	<1	<1	
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2012/8/1	Sunny	0.9	0.0	32	17	10	6	<30	<1	<1	
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/8/2	Sunny	1.5	0.0	75	3	7	2	<30	<1	<1	
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2012/8/2	Sunny	0.2	0.0	52	4	7	2	<30	<1	<1	
10			Kaminumabashi Bridge	Kashiwashi City	2012/8/2	Sunny	0.4	0.0	51	5	11	4	<30	<1	<1	
11		Someirotoshi	Someishinbashi Bridge	Kashiwashi City	2012/8/2	Sunny	0.6	0.0	27	4	14	6	<30	<1	<1	
12			Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Usuiishi City	2012/8/8	Sunny	1.0	0.0	37	19	4	2	<30	<1	<1	
13		Kanayamaotoshi	Nauchibashi Bridge	Usuiishi City	2012/8/8	Sunny	0.6	0.0	21	31	14	4	<30	<1	<1	
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/8/8	Sunny	0.4	0.0	35	31	8	2	<30	<1	<1	
15	Feeder River of Inbanuma Lake	Igusasu Channel	Downstream of Igusasu Channel	Kamagayashi City	2012/8/17	Sunny	0.1	0.0	36	45	8	3	<30	<1	<1	
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Usuiishi City	2012/8/17	Sunny	0.2	0.0	>100	39	<1	1	<30	<1	<1	
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/8/17	Sunny	2.0	0.0	20	37	7	3	<30	<1	<1	
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/8/6	Sunny	1.0	0.0	25	22	20	9	<30	<1	<1	
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City	2012/8/6	Cloudy	4.5	0.0	22	31	14	6	<30	<1	<1	
20		Tegurigawa River	Mumeibashi Bridge	Sakurashi City	2012/8/6	Rain	0.6	0.0	30	19	36	7	<30	<1	<1	
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/8/6	Rain	1.0	0.0	31	30	9	3	<30	<1	<1	
22		Kashimagawa River	Iwatombashi Bridge	Sakurashi City	2012/8/7	Sunny	0.6	0.0	47	27	9	2	<30	<1	<1	
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/8/7	Sunny	0.7	0.0	38	30	11	3	<30	<1	<1	
24		Kashimagawa River	Kashimabashi Bridge	Sakurashi City	2012/8/7	Sunny	3.0	0.0	34	27	11	4	<30	<1	<1	
25		Inbasu Channel	Tsurumakibashi Bridge	Inzaishi City	2012/8/7	Sunny	2.5	0.0	18	27	19	5	<30	<1	<1	
26	Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City	2012/8/8	Sunny	0.3	0.0	31	33	18	7	<30	<1	<1	
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/8/8	Sunny	0.3	0.0	52	19	6	1	<30	<1	<1	(Chiba Prefecture, Saitama Prefecture)
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/8/8	Sunny	1.0	0.0	57	23	4	2	<30	<1	<1	
29		Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City	2012/8/8	Sunny	0.4	0.0	59	35	12	3	<30	<1	<1	
30			Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2012/8/9	Sunny	0.5	0.0	37	20	6	2	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
31			Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/8/9	Sunny	3.5	0.0	24	20	12	4	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
32			Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2012/8/22	Sunny	3.6	0.0	29	35	6	3	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
33			Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/7/23	Cloudy	3.9	0.0	47	30	2	1	<30	<1	<1	
					2012/8/22	Sunny	4.3	0.0	30	23	5	3	<30	<1	<1	
34			Shingyotokubashi Bridge	Ichikawashi City	2012/7/13	Cloudy	0.5	0.0	23	4	11	6	<30	<1	<1	
					2012/8/10	Sunny	0.2	0.0	15	3,430	7	3	<30	<1	<1	
35			Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/7/13	Cloudy	1.5	0.0	41	41	15	6	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
					2012/8/10	Sunny	1.5	0.0	44	580	5	3	<30	<1	<1	
36			8km Point to the estuary	Urayasushi City/Edogawa City	2012/7/23	Cloudy	5.4	0.0	47	23	5	1	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
					2012/8/22	Sunny	5.1	0.0	34	25	4	2	<30	<1	<1	
37			Inaibashi Bridge	Urayasushi City/Edogawa City	2012/7/23	Cloudy	4.4	0.0	35	24	5	2	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
					2012/8/22	Sunny	4.6	0.0	35	24	3	2	<30	<1	<1	
38			Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/7/13	Cloudy	3.0	0.0	42	20	6	4	<30	<1	<1	(Chiba Prefecture, Tokyo Prefecture)
					2012/8/3	Sunny	3.0	0.0	35	113	19	4	<30	<1	<1	
39	Arakawa River System	Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/8/6	Rain	1.3	0.0	19	21	24	6	<30	<1	<1	
40		Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/8/6	Rain	0.8	0.0	7	24	25	5	<30	<1	1	
41		Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/8/6	Rain	0.9	0.0	13	30	38	17	<30	<1	1	
42		Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/8/10	Sunny	0.4	0.0	57	5	2	2	<30	<1	<1	
43		Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/8/10	Sunny	2.0	0.0	60	5	10	3	<30	<1	<1	
44		Mamagawa River	Mitomaebashi Bridge	Ichikawashi City	2012/8/10	Sunny	0.5	0.0	64	5	2	2	<30	<1	<1	
45		Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2012/8/10	Sunny	3.0	0.0	40	0	1	2	<30	<1	<1	
					2012/7/13	Cloudy	3.0	0.0	40	27	4	4	<30	<1	<1	
46	Miyakogawa River		Shinhanamigawabashi Bridge	Chibashi City	2012/8/3	Sunny	0.4	0.0	21	1,557	5	3	<30	<1	<1	
					2012/8/3	Sunny	1.5	0.0	55	2	3	1	<30	<1	<1	
47					2012/8/3	Sunny	1.5	0.0	55	2	3	1	<30	<1	<1	
48	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/8/6	Cloudy	1.5	0.0	72	2	4	2	<30	<1	<1	(Saitama Prefecture)
49		Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/8/6	Cloudy	1.0	0.0	42	3	6	3	<30	<1	<1	(Saitama Prefecture, Tokyo Prefecture)
					2012/7/13	Cloudy	1.4	0.0	48	408	5	2	<30	<1	<1	(Tokyo Prefecture)
50					2012/8/10	Sunny	2.5	0.0	52	1,346	<1	2	<30	<1	<1	
51		Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/7/13	Cloudy	3.9	0.0	73	558	4	2	<30	<1	<1	(Tokyo Prefecture)

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

ORiver: 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	Point	Municipality				Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137			
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	1.5	5	68	Silt	<30	460	730	
2			Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.5	5	83	Sand	<30	31	50	
3			Intake at Maeshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.4	5	48	Silt	<30	320	530	
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	0.3	2	80	Silt	<30	170	260	
5			Fujimbashi Bridge	Sakaemachi Town	2012/8/1	Cloudy	0.3	5	79	Mud	<30	140	250	
6			Ryumatsunohashi Bridge	Naritashi City/Sakaemachi Town	2012/8/1	Cloudy	0.2	2	88	Sand	<30	94	140	
7			Nekonagawa River	Shinkawa Floodgate	Naritashi City	2012/8/1	Sunny	0.9	3	42	Mud	<30	620	1,000
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/8/2	Sunny	1.5	2	70	Sludge	<30	2,000	3,100	
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2012/8/2	Sunny	0.2	3	65	Sand	<30	840	1,300	
10			Kaminumabashi Bridge	Kashiwashi City	2012/8/2	Sunny	0.4	2	44	Sludge	<44	5,400	8,600	
11		Someiritoshi	Someishinbashi Bridge	Kashiwashi City	2012/8/2	Sunny	0.6	1	52	Mud	<30	1,900	3,000	
12		Kanyamaotoshi	Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Usuishi City	2012/8/8	Sunny	1.0	2	54	Mud	<30	2,700	4,500	
13			Nauchibashi Bridge	Usuishi City	2012/8/8	Sunny	0.6	3	87	Sand	<30	500	770	
14			Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/8/8	Sunny	0.4	4	84	Sand	<30	220	340
15	Feeder River of Inbanuma Lake	Igusasu Channel	Downstream of Igusasu Channel	Kamagayashi City	2012/8/17	Sunny	0.1	1	86	Sand	<30	1,100	1,700	
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Usuishi City	2012/8/17	Sunny	0.2	3	84	Sand	<30	660	1,100	
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/8/17	Sunny	2.0	10	63	Mud	<30	320	510	
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/8/6	Sunny	1.0	5	68	Silt	<30	910	1,500	
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City	2012/8/6	Cloudy	4.5	16	39	Mud	<30	350	560	
20		Tegurigawa River	Mumeibashi Bridge	Sakurashi City	2012/8/6	Rain	0.6	3	77	Sand/sludge	<30	1,400	2,200	
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/8/6	Rain	1.0	4	54	Sludge	<30	640	1,000	
22		Kashimagawa River	Iwatombashi Bridge	Sakurashi City	2012/8/7	Sunny	0.6	3	87	Sand	<30	78	140	
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/8/7	Sunny	0.7	3	84	Sand	<30	100	170	
24		Kashimagawa River	Kashimabashi Bridge	Sakurashi City	2012/8/7	Sunny	3.0	20	90	Sand	<30	50	76	
25		Inbasu Channel	Tsurumakibashi Bridge	Inzaishi City	2012/8/7	Sunny	2.5	5	90	Sand	<30	100	150	
26	Edogawa River System	Toneunga Canal	Ugabashi Bridge	Nagareyamashi City	2012/8/8	Sunny	0.3	3	69	Sand/mud	<30	750	1,200	
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/8/8	Sunny	0.3	5	67	Mud	<30	210	310	(Chiba Prefecture, Saitama Prefecture)
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/8/8	Sunny	1.0	5	67	Sludge	<30	790	1,200	
29		Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City	2012/8/8	Sunny	0.4	3	74	Sand	<30	1,500	2,200	
30		Edogawa River	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2012/8/9	Sunny	0.5	3	59	Mud	<30	430	680	(Chiba Prefecture, Tokyo Prefecture)
31			Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/8/9	Sunny	3.5	3	91	Sand	<30	27	37	(Chiba Prefecture, Tokyo Prefecture)
32			Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2012/8/22	Sunny	3.6	5	81	Sand	<30	56	81	(Chiba Prefecture, Tokyo Prefecture)
33			Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/7/23	Cloudy	3.9	7	72	Sand	<30	160	260	
					2012/8/22	Sunny	4.3	5	56	Sand	<30	440	700	
34			Shingyotokubashi Bridge	Ichikawashi City	2012/7/13	Cloudy	0.5	10	78	Sludge	<30	13	31	
	2012/8/10				Sunny	0.2	2	81	Sludge	<30	17	31		
35	Kyuedogawa River	Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/7/13	Cloudy	1.5	-	-	-	-	-	-	Unable to collect sediment due to bottom being concrete laid	
				2012/8/10	Sunny	1.5	-	-	-	-	-	-	-	
36	Kyuedogawa River	8km Point to the estuary	Urayasushi City/Edogawa City	2012/7/23	Cloudy	5.4	2	78	Mud	<30	47	81	(Chiba Prefecture, Tokyo Prefecture)	
				2012/8/22	Sunny	5.1	5	80	Sand	<30	54	80		
37	Kyuedogawa River	Imaibashi Bridge	Urayasushi City/Edogawa City	2012/7/23	Cloudy	4.4	4	90	Sand	<30	29	46	(Chiba Prefecture, Tokyo Prefecture)	
				2012/8/22	Sunny	4.6	3	87	Sand	<30	29	44		
38	Kyuedogawa River	Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/7/13	Cloudy	3.0	5	87	Sand	<30	27	44	(Chiba Prefecture, Tokyo Prefecture)	
				2012/8/3	Sunny	3.0	5	54	Mud	<30	530	830		
39	Edogawa River System	Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/8/6	Rain	1.3	3	88	Mud	<30	260	440	
40		Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/8/6	Rain	0.8	3	57	Mud	<30	2,000	3,400	
41		Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/8/6	Rain	0.9	6	82	Sludge	<30	350	580	
42		Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/8/10	Sunny	0.4	2	22	Silt	<30	56	97	
43		Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/8/10	Sunny	2.0	5	92	Silt	<30	230	380	
44		Mamagawa River	Mitomaebashi Bridge	Ichikawashi City	2012/8/10	Sunny	0.5	10	46	Silt	<30	340	580	
45		Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2012/8/10	Sunny	3.0	4	83	Mud/sand	<30	160	250	
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2012/7/13	Cloudy	3.0	5	84	Silt	<30	88	120		
				2012/8/3	Sunny	0.4	2	67	Mud	<30	400	620		
47	Miyakogawa River	Miyakobashi Bridge	Chibashi City	2012/8/3	Sunny	1.5	3	77	Mud	<30	91	150		
48	Arakawa River System	Arakawa River Middle Reaches	Onarihashi Bridge	Konosushi City	2012/8/6	Cloudy	1.5	5	85	Sand	<30	10	15	(Saitama Prefecture)
49		Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/8/6	Cloudy	1.0	2	85	Sand	<30	25	36	(Saitama Prefecture, Tokyo Prefecture)
50		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2012/7/13	Cloudy	1.4	6	52	Sludge	<30	200	320	(Tokyo Prefecture)
					2012/8/10	Sunny	2.5	3	51	Mud	<30	77	140	
51	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/7/13	Cloudy	3.9	4	61	Sludge	<30	140	230	(Tokyo Prefecture)	

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

ORiver: Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank				Right bank				Remarks				
No.	Water body	Point	Municipality			Property	Concentration of radioactive material Bq/kg (dry)			Air dose μSv/h	Property	Concentration of radioactive material Bq/kg (dry)			Air dose μSv/h			
							Radioactive iodine I-131	Radioactive cesium Cs-134	Radioactive cesium Cs-137			Radioactive iodine I-131	Radioactive cesium Cs-134	Radioactive cesium Cs-137				
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	Loamy	<30	340	580	0.13	Loamy	<30	310	520	0.19		
2			Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	Loamy	<30	110	180	0.08	Loamy	<30	230	390	0.09		
3			Inake at Maeshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	Sandy	<30	230	370	0.09	Loamy	<30	680	1,100	0.11		
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/8/3	Sunny	Loamy	<30	250	400	0.10	Sandy/loamy	<30	16	32	0.06		
5			Fujimbashi Bridge	Sakaemachi Town	2012/8/2	Cloudy	Loamy	<30	160	240	0.14	Loamy	<30	180	270	0.13		
6		Ryudagawa River	Ryumatsunobashi Bridge	Naritashi City/Sakaemachi Town	2012/8/1	Cloudy	Loamy	<30	390	620	0.15	Loamy	<30	260	410	0.14		
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2012/8/1	Sunny	Loamy	<30	84	120	0.12	Loamy	<30	69	120	0.10		
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/8/2	Sunny	Loamy	<30	4,000	6,200	0.29	Loamy	<30	1,100	1,800	0.21		
9		Otsugawa River	Samnobashi Bridge, under	Kamagayashi City	2012/8/2	Sunny	Loamy	<30	430	660	0.17	Loamy	<30	200	330	0.16		
10			Kaminumabashi Bridge	Kashiwashi City	2012/8/2	Sunny	Loamy	<30	950	1,500	0.22	Loamy	<30	1,900	2,900	0.33		
11		Someirotoshi	Someishinbashi Bridge	Kashiwashi City	2012/8/2	Sunny	Loamy	<30	650	1,000	0.10	Loamy	<30	830	1,300	0.11		
12		Kanayamaotoshi	Downstream of Karuzawassakubashi Bridge	Kamagayashi City/Usuishi City	2012/8/8	Sunny	-	-	-	-	Loamy	<30	770	1,200	0.14	Sample collected from only one place due to a pond		
13			Nauchibashi Bridge	Usuishi City	2012/8/8	Sunny	Loamy	<30	720	1,200	0.19	Loamy	<30	440	710	0.17		
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/8/8	Sunny	Loamy	<30	300	470	0.16	Loamy	<30	1,000	1,700	0.21		
15	Feeder Rivers of Inbanuma Lake	Igusasuuro Channel	Downstream of Igusasuuro Channel	Kamagayashi City	2012/8/17	Sunny	Loamy	<30	360	560	0.16	Loamy	<30	270	420	0.15		
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Usuishi City	2012/8/17	Sunny	Loamy	<30	620	960	0.18	Loamy	<30	570	950	0.17		
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/8/17	Sunny	Loamy	<30	580	940	0.13	Loamy	<30	580	940	0.14		
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/8/6	Sunny	Loamy	<30	200	300	0.15	Loamy	<30	1,100	1,700	0.14		
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City	2012/8/6	Cloudy	Loamy	<30	85	140	0.17	Loamy	<30	280	430	0.18		
20		Tegurigawa River	Mumeibashi Bridge	Sakurashi City	2012/8/6	Rain	Loamy	<30	630	1,000	0.15	Loamy	<30	310	490	0.16		
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/8/6	Rain	Loamy/clayish	<30	100	150	0.12	Loamy	<30	170	300	0.12		
22		Kashimagawa River	Iwaimabashi Bridge	Sakurashi City	2012/8/7	Sunny	Loamy	<30	120	190	0.06	Loamy	<30	310	500	0.09		
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/8/7	Sunny	Loamy	<30	170	280	0.09	Loamy	<30	240	420	0.09		
24		Kashimagawa River	Kashimabashi Bridge	Sakurashi City	2012/8/7	Sunny	Loamy	<30	410	690	0.14	Sandy/loamy	<30	680	1,100	0.13		
25		Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2012/8/7	Sunny	Sandy	<30	370	590	0.15	Sandy	<30	590	950	0.17		
26	Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City	2012/8/8	Sunny	Loamy	<30	400	650	0.24	Loamy	<30	680	1,100	0.24		
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/8/8	Sunny	Loamy	<30	1,000	1,600	0.29	Loamy	<30	520	820	0.22		
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/8/8	Sunny	-	-	-	0.19	-	-	-	-	-	0.21	Soil not exposed	
29		Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City	2012/8/8	Sunny	-	-	-	0.16	-	-	-	-	-	0.18	Soil not exposed	
30			Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2012/8/9	Sunny	Loamy	<30	720	1,100	0.19	Loamy	<30	500	770	0.18		
31			Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/8/9	Sunny	Loamy	<30	660	1,000	0.18	Loamy	<30	580	920	0.19	(Chiba Prefecture, Tokyo Prefecture)	
32			Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2012/8/22	Sunny	Loamy	<30	170	280	0.20	Loamy	<30	240	380	0.19	(Chiba Prefecture, Tokyo Prefecture)	
33			Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/7/23	Cloudy	Loamy	<30	500	780	0.15	Loamy	<30	300	500	0.18		
					2012/8/22	Sunny	Loamy	<30	330	550	0.17	Loamy	<30	250	410	0.15		
34			Shingyotokubashi Bridge	Ichikawashi City	2012/7/13	Cloudy	Loamy	<30	83	120	0.12	Loamy	<30	180	280	0.10		
					2012/8/10	Sunny	Loamy	<30	110	180	0.12	Loamy	<30	410	640	0.06		
35			Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/7/13	Cloudy	Loamy	<30	300	430	0.11	Loamy	<30	260	430	0.12	(Chiba Prefecture, Tokyo Prefecture)	
					2012/8/10	Sunny	Loamy	<30	320	520	0.14	Loamy	<30	230	350	0.12		
36		Kyuedogawa River	8km Point to the estuary	Urayasushi City/Edogawa City	2012/7/23	Cloudy	Loamy	<30	360	600	0.17	Loamy	<30	450	710	0.18	(Chiba Prefecture, Tokyo Prefecture)	
					2012/8/22	Sunny	Loamy	<30	860	1,400	0.17	Loamy	<30	450	710	0.16		
37			Imaibashi Bridge	Urayasushi City/Edogawa City	2012/7/23	Cloudy	-	-	-	0.12	Loamy	<30	380	590	0.17	Soil not exposed		
					2012/8/22	Sunny	-	-	-	-	Loamy	<30	170	260	0.17	Soil not exposed		
38			Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/7/13	Cloudy	Loamy	<30	330	540	0.11	Loamy	<30	310	490	0.14	(Chiba Prefecture, Tokyo Prefecture)	
					2012/8/3	Sunny	Loamy	<30	540	850	0.10	Loamy	<30	180	280	0.12		
39	Mamagawa River System	Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/8/6	Rain	Loamy	<30	840	1,300	0.14	-	-	-	-	0.12	Soil not exposed	
40		Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/8/6	Rain	-	-	-	0.14	-	-	-	-	-	0.16	Soil not exposed	
41		Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/8/6	Rain	-	-	-	0.11	-	-	-	-	-	0.11	Soil not exposed	
42		Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/8/10	Sunny	Loamy	<30	360	580	0.12	Loamy	<30	430	680	0.13		
43		Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/8/10	Sunny	-	-	-	0.08	-	-	-	-	-	0.07	Unable to collect samples due to construction (left), and soil not exposed (right)	
44		Mamagawa River	Mitomaebashi Bridge	Ichikawashi City	2012/8/10	Sunny	Loamy	<30	140	230	0.07	Loamy	<30	180	270	0.10		
45		Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2012/8/10	Sunny	Loamy	<30	440	720	0.07	Loamy	<30	640	990	0.07		
					2012/7/13	Cloudy	Loamy	<30	160	250	0.12	Loamy	<30	250	420	0.10		
46	Inba Discharge Channel (lower reaches)		Shinhanamigawabashi Bridge	Chibashi City	2012/8/3	Sunny	Loamy	<30	210	330	0.09	Loamy	<30	410	680	0.10		
47		Miyakogawa River	Miyakobashi Bridge	Chibashi City	2012/8/3	Sunny	Sandy	<30	57	84	0.07	Loamy	<30	360	620	0.08		
48		Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/8/6	Cloudy	Loamy	<30	52	88	0.08	Loamy	<30	100	170	0.08	(Saitama Prefecture)	
49	Arakawa River System	Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/8/6	Cloudy	Loamy	<30	210	360	0.06	Loamy	<30	140	210	0.07	(Saitama Prefecture, Tokyo Prefecture)	
50		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2012/7/13	Cloudy	Loamy	<30	300	470	0.12	Loamy	<30	150	240	0.12	(Tokyo Prefecture)	
					2012/8/10	Sunny	Loamy/sandy	<30	320	510	0.11	Loamy	<30	310	490	0.10		
51		Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/7/13	Cloudy	-	-	-	0.06	-	-	-	-	-	0.07	Soil not exposed	

*Air dose was measured with a survey meter, TCS-171 or TCS-172 of Hitachi-Aloka Medical, Ltd.
*Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

○Lake and Headwater: Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth m	General items					Concentration of radioactive material Bq/L				Remarks
No.	Point						Sampling depth m	Secchi disk depth m	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134	Radioactive cesium Cs-137		
1	Teganuma Lake	Fusashita	Surface layer	2012/9/11	Sunny	1.9	0.5	0.3	28	26	17	<30	<1	<1		
			Lower layer				0.9		28	30	17	<30	<1	<1		
2		Shimoteganuma Chuo	Surface layer	2012/9/11	Sunny	1.3	0.5	0.3	30	62	34	<30	<1	<1		
			Lower layer				-		-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
3		Teganuma Chuo	Surface layer	2012/9/11	Sunny	1.4	0.5	0.4	27	30	19	<30	<1	<1		
			Lower layer				-		-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
4		Nedoshita	Surface layer	2012/9/11	Sunny	1.9	0.5	0.8	27	9	6	<30	<1	<1		
			Lower layer				0.9		26	9	6	<30	<1	<1		
5	Inbanuma Lake	Kita Inbanuma Chuo	Surface layer	2012/9/11	Sunny	1.5	0.5	0.3	28	25	16	<30	<1	<1		
			Lower layer				-		-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
6		Ipponmatsushita	Surface layer	2012/9/11	Sunny	1.5	0.5	0.4	28	21	13	<30	<1	<1		
			Lower layer				-		-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
7		Lower area of Josuido water intake	Surface layer	2012/9/11	Sunny	1.6	0.5	0.4	28	28	19	<30	<1	<1		
			Lower layer				0.6		28	17	20	<30	<1	<1		
8		Asobashi Bridge	Surface layer	2012/9/11	Sunny	1.8	0.5	0.5	28	13	9	<30	<1	<1		
			Lower layer				0.8		28	11	8	<30	<1	<1		

• Sampling points are listed from north to south.

○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
						General items			Concentration of radioactive material Bq/kg (dried mud)			Soil					
No.	Point					Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium		Property	Concentration of radioactive material Bq/kg (dry)		Air dose μSv/h		
							Cs-134	Cs-137	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137						
1	Teganuma Lake	Fusashita	2012/9/11	Sunny	1.9	3	67	Sand	<30	370	570	-	-	-	-	-	
2		Shimoteganuma Chuo	2012/9/11	Sunny	1.3	10	52	Mud	<30	280	440	Loamy	<30	590	950	0.15	
3		Teganuma Chuo	2012/9/11	Sunny	1.4	15	37	Mud	<30	590	950	-	-	-	-	-	
4		Nedoshita	2012/9/11	Sunny	1.9	10	38	Mud	<40	2,900	4,700	Loamy	<30	570	940	0.17	
5	Inbanuma Lake	Kita Inbanuma Chuo	2012/9/11	Sunny	1.5	15	34	Mud	<30	250	380	Loamy	<30	270	460	0.20	
6		Ipponmatsushita	2012/9/11	Sunny	1.5	15	34	Mud	<30	330	530	-	-	-	-	-	
7		Lower area of Josuido water intake	2012/9/11	Sunny	1.6	10	38	Mud	<30	390	660	-	-	-	-	-	
8		Asobashi Bridge	2012/9/11	Sunny	1.8	5	82	Sand	<30	300	500	Loamy	<30	170	260	0.11	

• Air dose was measured with a survey meter, TCS-171 or TCS-172 of Hitachi-Aloka Medical, Ltd.

• Sampling points are listed from north to south.

No.		Water body	Sampling point	Sampling date	Weather	Full depth m	Sampling depth m	Secchi disk depth m	General items			Concentration of radioactive material: Bq/L			Remarks
									Salinity %	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137		
1	Offshore of Ishanuma Discharge Channel	Surface layer	2012/8/1	Cloudy	5.2	0.5	2.5		22	3	4	<30	<1	<1	(Chiba Prefecture)
		Lower layer				4.2			26	24	5	<30	<1	<1	
		Surface layer	2012/9/3	Sunny	4.7	0.5	4.0		26	4	3	<30	<1	<1	
		Lower layer				3.7			27	3	4	<30	<1	<1	
2	Coastal area of Keiyo Port (Ebigawa River Estuary)	Surface layer	2012/8/1	Cloudy	5.6	0.5	2.0		23	3	4	<30	<1	<1	(Chiba Prefecture)
		Lower layer				4.6			26	11	6	<30	<1	<1	
		Surface layer	2012/9/3	Sunny	7.2	0.5	4.0		24	4	3	<30	<1	<1	
		Lower layer				6.2			29	30	4	<30	<1	<1	
3	Coastal area of Keiyo Port (Edogawa River Estuary)	Surface layer	2012/8/1	Cloudy	3.5	0.5	2.0		23	6	5	<30	<1	<1	(Chiba Prefecture)
		Lower layer				2.5			25	13	7	<30	<1	<1	
		Surface layer	2012/9/3	Sunny	4.6	0.5	4.0		25	3	4	<30	<1	<1	
		Lower layer				3.6			27	5	3	<30	<1	<1	
4	Offshore of Sumidagawa River Estuary	Surface layer	2012/7/19	Sunny	11.1	0.5	0.7		16	3	2	<30	<1	<1	(Tokyo Prefecture)
		Lower layer				10.1			26	3	2	<30	<1	<1	
		Surface layer	2012/8/23	Sunny	11.0	0.5	2.0		20	5	5	<30	<1	<1	
		Lower layer				10.0			27	5	3	<30	<1	<1	
5	Offshore of Arakawa River/Kyudogawa River Estuaries	Surface layer	2012/7/19	Sunny	5.1	0.5	0.5		11	7	2	<30	<1	<1	(Tokyo Prefecture)
		Lower layer				4.1			25	16	3	<30	<1	<1	
		Surface layer	2012/8/23	Sunny	5.1	0.5	0.7		20	5	4	<30	<1	<1	
		Lower layer				4.1			12	12	5	<30	<1	<1	

No.	Sampling point	Sampling date	Weather	Full depth m	General items				Concentration of radioactive material Bq/kg (dried mud)				Remarks
					Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Cs-134	Radioactive cesium	Cs-137		
1	Offshore of Inbanuma Discharge Channel	2012/8/1	Cloudy	5.2	4	72	Silt	<30	<10	<15	<20	(Chiba Prefecture)	
		2012/9/3	Sunny	4.7	5	74	Silt	<30	<10	<15	<10		
		2012/9/1	Cloudy	5.6	4	67	Silt	<30	<10	<10	<10		
2	Coastal area of Keiyo Port (Edogawa River Estuary)	2012/9/3	Sunny	7.2	5	64	Sand	<30	<10	<10	<10	(Chiba Prefecture)	
		2012/8/1	Cloudy	3.5	3	72	Silt	<30	<10	<12	<14		
		2012/9/3	Sunny	4.6	5	68	Sand	<30	<10	<12	<19		
3	Coastal area of Keiyo Port (Edogawa River Estuary)	2012/7/19	Sunny	11.1	20	42	Sludge	<30	<10	<10	<10	(Tokyo Prefecture)	
		2012/8/23	Sunny	11.0	6	44	Silt	<30	<18	<18	<18		
		2012/7/19	Sunny	5.1	20	47	Sludge	<30	<17	<140	<240		
4	Offshore of Arakawa River/Kyudogawa River Estuaries	2012/8/23	Sunny	5.1	5	59	Silt	<30	<30	<150	<250	(Tokyo Prefecture)	
		2012/7/19	Sunny	5.1	5	59	Silt	<30	<30	<150	<250		
		2012/8/23	Sunny	5.1	5	59	Silt	<30	<30	<150	<250		

