

(News Release)

The Results of Radioactive Material Monitoring of the Surface Water Bodies
within Tokyo, Saitama, and Chiba Prefectures
(September-November 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 September 18-November 16, 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

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

(Rivers: 51 locations, Coasts: 8 locations)

Note: Starting with this survey, there is one new location (coast).

(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 (July-September 2012))

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

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

(*Rivers: ND-1Bq/L, Coasts: 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 1,000Bq/kg or below at most of the locations (coasts: 500Bq/kg or

below), and have generally declined or remained constant.

(Rivers)

Cs-134 + Cs-137: 37-5,700Bq/kg (dried mud) (*25-14,000Bq/kg (dried mud))

(Coasts)

Cs-134 + Cs-137: ND-440Bq/kg (dried mud) (*ND-400Bq/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 (26)	12 (10)	5 (6)	2 (5)	2 (2)	5 (1)	4 (7)	54 (57)
Coasts	15 (10)	-	-	-	-	-	-	15 (10)

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

(Rivers)

Cs-134 + Cs-137: 14-5,000Bq/kg (dry) (*48-10,200Bq/kg (dry))

Spatial dose: 0.04-0.37μSv/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.

○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	2012/11/1	Sunny	1.70	0.0	24	30	9	6	<1	<1	<1				
2			Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	1.15	0.0	13	26	47	34	<1	<1	<1	<1			
3		Nagatogawa River	Intake at Maeshinden Water Purification Plant		Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	0.50	0.0	13	25	37	29	<1	<1	<1			
4			Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	0.20	0.0	18	26	23	23	<1	<1	<1	<1			
5			Fujimibashi Bridge	Sakaemachi Town	2012/11/1	Sunny	1.20	0.0	53	25	9	7	<1	<1	<1	<1			
6		Ryudaigawa River	Ryumatsunohashi Bridge	Naritashi City/Sakaemachi Town	2012/11/2	Sunny	0.30	0.0	35	135	15	10	<1	<1	<1	<1			
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2012/11/2	Sunny	1.80	0.0	47	122	7	5	<1	<1	<1	<1			
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.20	0.0	>100	35	4	2	<1	<1	<1	<1			
9			Sannobashi Bridge, under	Kamagayashi City	2012/11/5	Cloudy	0.15	0.0	78	47	7	4	<1	<1	<1	<1			
10		Otsugawa River	Kaminumabashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.30	0.0	>100	68	4	3	<1	<1	<1	<1			
11		Someirotoshi	Downstream of Karuzawasakaibashi Bridge	Someishinbashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.60	0.0	78	43	4	4	<1	<1	<1	<1		
12				Kamagayashi City/Usuisi City	2012/11/16	Sunny	0.60	0.0	>100	48	1	1	<1	<1	<1	<1	<1		
13		Kanayamaotoshi	Nauchibashi Bridge	Usuisi City	2012/11/8	Sunny	0.40	0.0	>100	39	5	2	<1	<1	<1	<1	<1		
14				Inzaishi City	2012/11/8	Sunny	0.50	0.0	75	35	4	3	<1	<1	<1	<1	<1		
15	Feeder Rivers of Inbanuma Lake	Igasasuiro Channel	Downstream of Igasasuiro Channel	Kamagayashi City	2012/11/16	Sunny	0.05	0.0	>100	61	2	3	<1	<1	<1	<1			
16			Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Usuisi City	2012/11/16	Sunny	0.20	0.0	>100	48	<1	1	<1	<1	<1	<1		
17		Kanzukigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/11/7	Sunny	1.50	0.0	36	29	12	11	<1	<1	<1	<1			
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/11/7	Sunny	0.50	0.0	46	38	6	6	<1	<1	<1	<1	<1		
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City	2012/11/7	Sunny	3.00	0.0	33	24	17	14	<1	<1	<1	<1	<1		
20				Tegurigawa River	Mumeibashi Bridge	Sakurashi City	2012/11/7	Sunny	0.30	0.0	87	34	6	3	<1	<1	<1	<1	
21			Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/11/7	Sunny	1.00	0.0	45	18	11	8	<1	<1	<1	<1		
22			Kashimigawa River	Iwatombashi Bridge	Sakurashi City	2012/11/8	Sunny	0.60	0.0	70	34	6	3	<1	<1	<1	<1	<1	
23			Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/11/8	Sunny	1.00	0.0	75	36	6	3	<1	<1	<1	<1	<1	
24			Kashimigawa River	Kashimabashi Bridge	Sakurashi City	2012/11/8	Sunny	2.70	0.0	37	35	14	8	<1	<1	<1	<1	<1	
25	Inbasuiro Channel		Tsurumakibashi Bridge	Inzaishi City	2012/11/8	Sunny	2.50	0.0	27	28	18	13	<1	<1	<1	<1	<1		
26	Toneunga Canal		Ungabashi Bridge	Nagareyama City	2012/11/9	Sunny	0.20	0.0	44	48	7	5	<1	<1	<1	<1	<1		
27	Edogawa River	Nagareyamabashi Bridge	Nagareyama City/Misatoshi City	2012/11/9	Sunny	0.30	0.0	82	31	5	2	<1	<1	<1	<1	(Chiba Prefecture, Saitama Prefecture)			
28	E d o g a w a R i v e r S y s t e m	Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/11/12	Rain	2.10	0.0	87	27	3	2	<1	<1	<1	<1			
29			Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City	2012/11/12	Rain	0.45	0.0	39	25	9	7	<1	<1	<1	<1		
30		Edogawa River	Vicinity of Keiyo Road	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2012/11/12	Cloudy	0.80	0.0	81	31	4	3	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)	
31				Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/11/12	Cloudy	2.00	0.0	67	31	8	4	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)	
32				2012/11/14	Sunny	3.30	0.0	62	33	5	3	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)		
33				Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/9/18	Sunny	4.55	0.0	38	35	7	5	<1	<1	<1	<1	<1	
34					2012/11/14	Sunny	3.80	0.0	74	45	4	4	<1	<1	<1	<1	<1	<1	
35				Kyuedogawa River	Shingyotokubashi Bridge	Ichikawashi City	2012/11/13	Sunny	0.30	0.0	63	4,870	8	4	<1	<1	<1	<1	<1
36		Edogawa Floodgate, down	Ichikawashi City/Edogawa City			2012/9/18	Cloudy	6.00	0.0	36	44	14	5	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)	
37		8km Point to the estuary	Urayasushi City/Edogawa City		2012/11/14	Sunny	6.10	0.0	60	33	7	5	<1	<1	<1	<1	<1		
38	2012/9/18		Cloudy		3.20	0.0	34	39	14	5	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)			
39	Imabashi Bridge	Urayasushi City/Edogawa City	2012/11/14	Sunny	5.00	0.0	61	30	8	5	<1	<1	<1	<1	<1				
40		2012/9/18	Sunny	5.00	0.0	44	157	6	4	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)				
41	Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/11/13	Cloudy	2.00	0.0	40	355	9	5	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)				
42	Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/11/15	Sunny	0.88	0.0	68	26	3	3	<1	<1	<1	<1				
43	Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/11/15	Sunny	1.20	0.0	33	66	10	7	<1	<1	<1	<1				
44	Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/11/15	Sunny	0.80	0.0	52	99	4	3	<1	<1	<1	<1				
45	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/11/15	Sunny	0.30	0.0	70	54	4	3	<1	<1	<1	<1				
46	Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/11/15	Sunny	1.50	0.0	75	70	3	3	<1	<1	<1	<1				
47	Mamagawa River	Mitomaebashi Bridge	Ichikawashi City	2012/11/14	Sunny	3.70	0.0	61	885	2	1	<1	<1	<1	<1				
48	Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2012/11/14	Sunny	2.70	0.0	78	663	2	2	<1	<1	<1	<1				
49	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2012/11/15	Sunny	3.00	0.0	74	730	5	4	<1	<1	<1	<1				
50	Miyakogawa River	Miyakobashi Bridge	Chibashi City	2012/11/1	Sunny	1.00	0.0	74	698	4	2	<1	<1	<1	<1				
51	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/11/2	Sunny	2.00	0.0	54	27	12	5	<1	<1	<1	(Saitama Prefecture)			
52			Sasamebashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/11/2	Sunny	0.70	0.0	45	32	7	3	<1	<1	<1	<1	(Saitama Prefecture, Tokyo Prefecture)		
53		Arakawa River Lower Reaches	Kasabashi Bridge	Koto City/Edogawa City	2012/11/12	Sunny	2.50	0.0	72	3,990	7	3	<1	<1	<1	<1	(Tokyo Prefecture)		
54				2012/9/21	Cloudy	3.50	0.0	62	3	3	2	<1	<1	<1	<1	<1	<1		
55	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/10/12	Sunny	3.00	0.0	>100	3	4	3	<1	<1	<1	<1	(Tokyo Prefecture)			
56			2012/11/13	Sunny	3.80	0.0	86	1,690	6	3	<1	<1	<1	<1	<1	<1			

* 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

No.	Sampling point			Sampling date	Weather	Full depth m	General items			Concentration of radioactive material Bq/kg (dried mud)				Remarks			
	Water body	Point	Municipality				Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium						
											Cs-134	Cs-137	Total				
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	1.70	5	67	Silt	<30	440	760	1,200			
2			Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	1.15	3	90	Sand	<30	19	35	54			
3		Nagatogawa River	Intake at Maeshinden Water Purification Plant		Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	0.50	3	67	Silt/Sludge	<30	120	190	310		
4					Inzaishi City/Sakaemachi Town	2012/11/1	Sunny	0.20	3	86	Sand	<30	110	190	300		
5				Fujimibashi Bridge	Sakaemachi Town	2012/11/1	Sunny	1.20	3	67	Silt	<30	170	310	480		
6		Ryudagawa River	Ryumatsunobashi Bridge	Naritashi City/Sakaemachi Town	2012/11/2	Sunny	0.30	2	87	Sand	<30	110	180	290			
7		Nekomagawa River	Shinkawa Floodgate	Naritashi City	2012/11/2	Sunny	1.80	10	40	Silt	<30	250	390	640			
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.20	3	73	Sand/silt	<30	1,100	1,900	3,000			
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2012/11/5	Cloudy	0.15	2	89	Sand/silt	<30	340	560	900			
10			Kaminumabashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.30	2	48	Clay	<30	140	240	380			
11			Someiriotoshi	Someishinbashi Bridge	Kashiwashi City	2012/11/5	Cloudy	0.60	5	38	Silt	<30	2,100	3,600	5,700		
12			Kanayamaotoshi	Downstream of Karuzawaskabashi Bridge	Kamagayashi City/Usuishi City	2012/11/16	Sunny	0.60	1	87	Sand	<30	480	820	1,300		
13				Nauchibashi Bridge	Usuishi City	2012/11/8	Sunny	0.40	4	84	Sand	<30	480	850	1,330		
14			Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/11/8	Sunny	0.50	5	68	Silt	<30	620	1,000	1,620		
15	Feeder Rivers of Inbanuma Lake	Igusasu Channel	Downstream of Igusasu Channel	Kamagayashi City	2012/11/16	Sunny	0.05	1	72	Sand	<30	1,300	2,200	3,500			
16		Futaogawa River	Tomiyagabashi Bridge	Funabashi City/Usuishi City	2012/11/16	Sunny	0.20	3	91	Sand	<30	430	720	1,150			
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/11/7	Sunny	1.50	3	73	Silt	<30	650	1,000	1,650			
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/11/7	Sunny	0.50	3	85	Sand	<30	340	540	880			
19			Inba Discharge Channel (upper reaches)	Yachiyoshi Bridge	Yachiyoshi City	2012/11/7	Sunny	3.00	7	44	Sand	<30	930	1,600	2,530		
20		Tegurigawa River	Mumebashi Bridge	Sakurashi City	2012/11/7	Sunny	0.30	5	82	Sand	<30	1,200	1,900	3,100			
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/11/7	Sunny	1.00	5	68	Silt	<30	310	540	850			
22		Kashimaga River	Iwatombashi Bridge	Sakurashi City	2012/11/8	Sunny	0.60	3	88	Sand	<30	69	110	179			
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/11/8	Sunny	1.00	5	65	Sand	<30	330	560	890			
24		Kashimaga River	Kashimabashi Bridge	Sakurashi City	2012/11/8	Sunny	2.70	6	42	Silt	<30	400	680	1,080			
25		Inbasu Channel	Tsurumakibashi Bridge	Inzaishi City	2012/11/8	Sunny	2.50	3	74	Sand	<30	86	140	226			
26	Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City	2012/11/9	Sunny	0.20	5	64	Silt	<30	950	1,600	2,550			
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/11/9	Sunny	0.30	8	66	Silt	<30	140	270	410	(Chiba Prefecture, Saitama Prefecture)		
28		Sakagawa River	Bentebashi Bridge	Matsudoshi City	2012/11/12	Rain	2.10	3	73	Silt	<30	1,300	2,300	3,600			
29		Shinsakagawa River	Saknebashi Bridge	Matsudoshi City	2012/11/12	Rain	0.45	3	83	Sand	<30	920	1,600	2,520			
30				Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2012/11/12	Cloudy	0.80	5	65	Silt	<30	270	470	740	(Chiba Prefecture, Tokyo Prefecture)	
31				Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/11/12	Cloudy	2.00	2	88	Sand	<30	27	46	73	(Chiba Prefecture, Tokyo Prefecture)	
32				Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2012/11/14	Sunny	3.30	4	78	Sand	<30	78	140	218	(Chiba Prefecture, Tokyo Prefecture)	
33				Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/9/18	Sunny	4.55	5	74	Mud	<30	110	190	300		
34						2012/11/14	Sunny	3.80	6	81	Sand/silt	<30	70	120	190		
35				Shingyotokubashi Bridge	Ichikawashi City	2012/11/13	Sunny	0.30	2	89	Sand/silt	<30	21	32	53		
36				Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/9/18	Cloudy	6.00	5	76	Sand	<30	53	83	136	(Chiba Prefecture, Tokyo Prefecture)	
37						2012/11/14	Sunny	6.10	3	82	Sand	<30	41	68	109		
38				8km Point to the estuary	Uraysashi City/Edogawa City	2012/9/18	Cloudy	3.20	5	72	Sand	<30	130	210	340	(Chiba Prefecture, Tokyo Prefecture)	
39						2012/11/14	Sunny	5.00	3	83	Sand	<30	44	77	121		
40				Inaibashi Bridge	Uraysashi City/Edogawa City	2012/9/18	Sunny	5.00	5	86	Sand	<30	38	66	104	(Chiba Prefecture, Tokyo Prefecture)	
41						2012/11/14	Sunny	4.90	3	85	Sand	<30	28	64	92		
42				Uraysubashi Bridge	Uraysashi City/Edogawa City	2012/11/13	Cloudy	2.00	10	50	Silt	<30	750	1,300	2,050	(Chiba Prefecture, Tokyo Prefecture)	
43				Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/11/15	Sunny	0.88	1	85	Sand	<30	270	430	700	
44				Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/11/15	Sunny	1.20	3	68	Sand	<30	890	1,500	2,390	
45				Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/11/15	Sunny	0.80	5	84	Sand	<30	310	530	840	
46			Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/11/15	Sunny	0.30	2	30	Mud	<30	69	120	189		
47			Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/11/15	Sunny	1.50	3	85	Sand	<30	280	510	790		
48			Mamagawa River	Mitomebashi Bridge	Ichikawashi City	2012/11/14	Sunny	3.70	6	50	Silt	<30	210	370	580		
49	Ebigawa River	Yachiyoshi Bridge	Funabashi City	2012/11/14	Sunny	2.70	4	78	Sand/silt	<30	200	330	530				
50	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2012/11/15	Sunny	3.00	15	37	Silt	<30	1,100	1,800	2,900				
51	Miyakogawa River	Miyakobashi Bridge	Chibashi City	2012/11/1	Sunny	1.00	5	87	Sand	<30	37	54	91				
52	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/11/2	Sunny	2.00	1	82	Silt	<30	15	22	37	(Saitama Prefecture)		
53		Arakawa River Lower Reaches	Sasamebashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/11/2	Sunny	0.70	2	58	Sand	<30	190	300	490	(Saitama Prefecture, Tokyo Prefecture)		
54		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2012/11/12	Sunny	2.50	4	52	Silt	<30	110	190	300	(Tokyo Prefecture)		
55		Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/9/21	Cloudy	3.50	3	60	Silt	<30	110	190	300			
					2012/10/12	Sunny	3.00	5	57	Silt	<30	180	290	470	(Tokyo Prefecture)		
					2012/11/13	Sunny	3.80	5	58	Silt	<30	250	420	670			

*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 μ Sv/h	Property	Concentration of radioactive material Bq/kg (dry)				Air dose μ Sv/h																																							
							Radioactive iodine I-131	Cs-134	Radioactive cesium Cs-137	Total			Radioactive iodine I-131	Cs-134	Radioactive cesium Cs-137			Total																																						
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2012/1/1	Sunny	Loamy	<30	130	200	330	0.12	Loamy	<30	330	530	860	0.19																																						
			Shimbelbashi Bridge	Inzaishi City/Sakaemachi Town	2012/1/1	Sunny	Sandy	<30	150	240	390	0.09	Loamy	<30	160	280	440	0.11																																						
		Nagatogawa River	Inake at Maishinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/1/1	Sunny	Loamy	<30	100	300	400	0.10	Loamy	<30	490	790	1,200	0.11																																						
			Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/1/1	Sunny	Sandy	<30	15	26	41	0.07	Sandy	<30	100	180	280	0.11																																						
			Fujimbashi Bridge	Sakaemachi Town	2012/1/1	Sunny	Loamy	<30	190	340	530	0.10	Loamy	<30	210	340	550	0.10																																						
		Ryudagawa River	Ryudatsunohashi Bridge	Narutashi City/Sakaemachi Town	2012/1/2	Sunny	Loamy	<30	240	420	660	0.12	Loamy	<30	310	560	870	0.15																																						
		Nekotogawa River	Shinkawa Floodgate	Narutashi City	2012/1/2	Sunny	Loamy/sandy/skeletal	<30	270	460	730	0.11	Loamy	<30	59	90	149	0.08																																						
Feeder Rivers of Teganuma Lake																																																								
																				Ohorogawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/1/5	Cloudy	Loamy	<30	510	840	1,350	0.26	Loamy	<30	990	1,600	2,590	0.37																				
																				Sannobashi Bridge, under	Kamagayashi City	2012/1/5	Cloudy	Loamy	<30	450	740	1,190	0.19	Loamy	<30	570	930	1,500	0.13																					
																				Otsugawa River	Kammunabashi Bridge	Kashiwashi City	2012/1/5	Cloudy	Loamy	<30	710	1,200	1,910	0.26	Loamy	<30	96	160	256	0.23																				
																				Someidrotoshi	Someidrinbashi Bridge	Kashiwashi City	2012/1/5	Cloudy	Loamy/skeletal	<30	910	1,500	2,410	0.13	Loamy	<30	1,200	1,900	3,100	0.14																				
																				Kanayamaotoshi	Downstream of Kanizawasakaibashi Bridge	Kamagayashi City/Usaishi City	2012/1/16	Sunny	Loamy	<30	1,500	2,600	4,100	0.16	Loamy	<30	690	1,200	1,890	0.14																				
																					Nauchibashi Bridge	Usaishi City	2012/1/8	Sunny	Loamy	<30	420	730	1,150	0.12	Loamy	<30	610	1,000	1,610	0.16																				
Feeder Rivers of Inbanuma Lake																																																								
																				Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/1/8	Sunny	Loamy	<30	300	500	800	0.18	Loamy	<30	280	510	790	0.17																				
																				Igussuuro Channel	Downstream of Igussuuro Channel	Kamagayashi City	2012/1/16	Sunny	Loamy	<30	460	770	1,230	0.14	Loamy	<30	320	500	820	0.12																				
																				Futagawa River	Tomiyagabashi Bridge	Funabashi City/Usaishi City	2012/1/16	Sunny	Loamy	<30	580	990	1,570	0.17	Loamy	<30	600	1,000	1,600	0.16																				
																				Kanzakigawa River	Kanzakibashi Bridge	Yachiyo City/Inzaishi City	2012/1/7	Sunny	Loamy	<30	330	610	940	0.13	Loamy	<30	250	440	690	0.12																				
																				Kanogawa River	Kanobashi Bridge	Yachiyo City	2012/1/7	Sunny	Loamy	<30	390	670	1,060	0.13	Loamy	<30	300	510	810	0.13																				
																				Teguragawa River	Yachiyo Channel (upper reaches)	Yachiyo City	2012/1/7	Sunny	Loamy	<30	340	570	910	0.14	Loamy	<30	230	380	600	0.13																				
																				Mumenbashi Bridge	Sakurashi City	2012/1/7	Sunny	Loamy	<30	510	880	1,390	0.13	Loamy	<30	110	190	300	0.15																					
																				Mototogawa River	Mototobashi Bridge	Inzaishi City	2012/1/7	Sunny	Loamy	<30	130	240	370	0.10	Loamy	<30	240	390	630	0.11																				
																				Kashimogawa River	Iwatombashi Bridge	Sakurashi City	2012/1/8	Sunny	Loamy	<30	51	93	144	0.08	Loamy	<30	47	85	132	0.08																				
																				Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/1/8	Sunny	Loamy	<30	130	240	370	0.08	Loamy	<30	120	200	320	0.07																				
																				Kashimogawa River	Kashimabashi Bridge	Sakurashi City	2012/1/8	Sunny	Loamy	<30	110	180	290	0.08	Loamy	<30	100	180	280	0.07																				
																				Inbasu Channel	Tsurumikubashi Bridge	Inzaishi City	2012/1/8	Sunny	Loamy	<30	270	440	710	0.14	Loamy	<30	490	810	1,300	0.16																				
																				Edogawa River																																				
Toneunga Canal	Ungabashi Bridge	Nagareyama City	2012/1/9	Sunny	Loamy	<30	430	720	1,150	0.20	Loamy	<30	240	400	640	0.19																																								
Edogawa River	Nagareyama Bridge	Nagareyama City/Misato City	2012/1/9	Sunny	Loamy	<30	650	1,100	1,750	0.21	Loamy	<30	410	690	1,100	0.16	(Chiba Prefecture, Saitama Prefecture)																																							
Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/1/12	Rain	-	-	-	-	-	0.18	-	-	-	-	-	-	0.17	Soil not exposed																																						
Shinsakagawa River	Sakanebashi Bridge	Matsudoshi City	2012/1/12	Rain	-	-	-	-	-	0.16	-	-	-	-	-	-	0.18	Soil not exposed																																						
Kyudogawa River																																																								
																																								Shinkatsukubashi Bridge	Matsudoshi City/Katsushika City	2012/1/12	Cloudy	Loamy	<30	310	550	860	0.18	Loamy	<30	890	1,400	2,290	0.23	(Chiba Prefecture, Tokyo Prefecture)
																																								Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/1/12	Cloudy	Loamy	<30	350	600	950	0.15	Loamy	<30	150	240	390	0.23	(Chiba Prefecture, Tokyo Prefecture)
																																								Vicinity of Keyo Road	Ichikawashi City/Edogawa City	2012/1/14	Sunny	Loamy	<30	180	310	490	0.14	Loamy	<30	280	510	790	0.14	(Chiba Prefecture, Tokyo Prefecture)
																																								Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/9/18	Sunny	Loamy	<30	210	340	550	0.12	Loamy	<30	840	1,400	2,240	0.16	
																																								Shingyotokubashi Bridge	Ichikawashi City	2012/1/14	Sunny	Loamy	<30	160	260	420	0.16	Loamy	<30	300	490	790	0.14	
																																										2012/1/13	Sunny	Loamy	<30	100	200	300	0.08	Loamy/sandy	<30	<10	14	14	0.05	
																																								Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/9/18	Cloudy	Loamy	<30	260	460	720	0.13	Loamy	<30	250	410	660	0.12	
																																										2012/1/14	Sunny	Loamy	<30	500	900	1,400	0.17	Loamy	<30	320	590	910	0.12	(Chiba Prefecture, Tokyo Prefecture)
																				2012/9/18	Cloudy	Loamy	<30	380	630	1,010	0.16	Loamy	<30	520	780	1,300	0.25	(Chiba Prefecture, Tokyo Prefecture)																						
2012/1/14	Sunny	Loamy	<30	210	370	580	0.15	Loamy	<30	270	450	720	0.13	(Chiba Prefecture, Tokyo Prefecture)																																										
Imabashi Bridge	Urayasushi City/Edogawa City	2012/9/18	Sunny	-	-	-	-	-	-	-	Loamy	<30	500	800	1,300	0.14	(Chiba Prefecture, Tokyo Prefecture)																																							
		2012/1/14	Sunny	-	-	-	-	-	-	-	Loamy	<30	280	500	780	0.14	Soil not exposed																																							
Mamagawa River																																																								
																				Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/1/13	Cloudy	Loamy	<30	1,800	3,200	5,000	0.13	Loamy	<30	990	1,600	2,590	0.11	(Chiba Prefecture, Tokyo Prefecture)																				
																				Nemoto Floodgate	Ichikawashi City	2012/1/13	Sunny	Loamy	<30	270	450	720	0.12	-	-	-	-	-	-	0.11	Soil not exposed																			
																				Suwadabashi Bridge	Ichikawashi City	2012/1/13	Sunny	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	Soil not exposed																		
																				Harukigawa River	Before the confluence with Kokubagawa River	Ichikawashi City	2012/1/13	Sunny	-	-	-	-	-	-	-	-	-	-	-	-	0.12	Soil not exposed																		
																				Hasen-okashiwagawa River	Downstream of Nakazawasubashi Bridge	Kamagayashi City/Ichikawashi City	2012/1/15	Sunny	Loamy	<30	610	1,100	1,710	0.14	Loamy/sandy	<30	380	680	1,060	0.12																				
																				Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/1/15	Sunny	-	-	-	-	-	0.07	-	-	-	-	-	-	0.08	(Left bank) Unable to collect samples due to construction (Right bank) Soil not exposed																		
																				Mamagawa River	Mitomebashi Bridge	Ichikawashi City	2012/1/14	Sunny	Loamy/sandy	<30	260	430	690	0.10	Loamy	<30	200	330	530	0.09																				
																				Ehigawa River	Yachiyo Bridge	Funabashi City	2012/1/14	Sunny	Loamy	<30	360	600	960	0.09	Loamy	<30	430	730	1,160	0.08																				
																				Miyakogawa River																																				
Inba Discharge Channel (lower reaches)	Shiharamigawabashi Bridge	Chibashi City	2012/1/15	Sunny	Loamy/sandy	<30	120	210	330	0.12	Loamy/sandy	<30	180	310	490	0.11																																								
Miyakogawa River	Miyakubashi Bridge	Chibashi City	2012/1/1	Sunny	Sandy	<30	43	70	113	0.07	Loamy	<30	330	540	870	0.09																																								
Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/1/2	Sunny	Loamy	<30	51	100	151	0.08	Loamy	<30	85	130	215	0.08	(Saitama Prefecture)																																							
Arakawa River Lower Reaches	Sasamebashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/1/2	Sunny	Loamy	<30	200	320	520	0.07	Loamy	<30	<10	19	19	0.06	(Saitama Prefecture, Tokyo Prefecture)																																							
Arakawa River Lower Reaches	Kasubashi Bridge	Koto City/Edogawa City	2012/1/12	Sunny	Loamy/skeletal	<30	420	750	1,170	0.11	Loamy	<30	160	270	430	0.11	(Tokyo Prefecture)																																							
Arakawa River System	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/9/21	Cloudy	-	-	-	-	-	0.07	-	-	-	-	-	-	0.05	(Tokyo Prefecture)																																					
				2012/10/12	Sunny	-	-	-	-	-	-	-	0.06	-	-	-	-	-	0.06	Soil not exposed																																				
				2012/11/13	Sunny	-	-	-	-	-	-	-	0.04	-	-	-	-	-	0.06																																					

*Air dose was measured with a survey meter, TCS-172 or TCS-161 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.

○Coast: Water Quality Monitoring Results

Sampling point		Sampling date	Weather	Full depth m	General items			Concentration of radioactive material Bq/L			Remarks				
No.	Water body				Sampling depth m	Secchi disk depth m	Salinity ‰	SS mg/L	Turbidity	Radioactive iodine I-131		Radioactive cesium Cs-134 Cs-137			
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	Surface layer	2012/10/3	Rain	9.3	0.5	3.0	31	6	1	<1	<1	<1	(Chiba Prefecture)
			Lower layer					8.3	3	1	<1	<1	<1		
			Surface layer	2012/11/5	Cloudy	9.6	0.5	4.8	32	7	2	<1	<1	<1	
			Lower layer					8.6	5	1	<1	<1	<1		
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	Surface layer	2012/10/3	Rain	8.6	0.5	2.5	30	6	2	<1	<1	<1	(Chiba Prefecture)
			Lower layer					7.6	4	2	<1	<1	<1		
			Surface layer	2012/11/5	Cloudy	8.8	0.5	4.5	30	4	1	<1	<1	<1	
			Lower layer					7.8	5	2	<1	<1	<1		
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	Surface layer	2012/10/3	Rain	5.0	0.5	2.1	29	6	2	<1	<1	<1	(Chiba Prefecture)
			Lower layer					4.0	4	1	<1	<1	<1		
			Surface layer	2012/11/5	Cloudy	4.9	0.5	4.0	31	5	2	<1	<1	<1	
			Lower layer					3.9	4	1	<1	<1	<1		
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	Surface layer	2012/10/3	Cloudy	7.3	0.5	1.9	31	6	2	<1	<1	<1	(Chiba Prefecture)
			Lower layer					6.3	6	3	<1	<1	<1		
			Surface layer	2012/11/5	Cloudy	6.9	0.5	4.6	31	4	1	<1	<1	<1	
			Lower layer					5.9	5	2	<1	<1	<1		
5	Approx. 1 km offshore of Edogawa River Estuary	Coastal area of Keiyo Port (Edogawa River Estuary)	Surface layer	2012/10/3	Cloudy	3.1	0.5	1.8	31	6	2	<1	<1	<1	(Chiba Prefecture)
			Lower layer					2.1	7	3	<1	<1	<1		
			Surface layer	2012/11/5	Cloudy	5.3	0.5	4.6	31	4	2	<1	<1	<1	
			Lower layer					4.3	6	2	<1	<1	<1		
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	Surface layer	2012/10/18	Rain	8.0	0.5	1.5	39	5	4	<1	<1	<1	(Tokyo Prefecture) New sampling point
			Lower layer					7.0	11	8	<1	<1	<1		
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	Surface layer	2012/9/20	Sunny	5.5	0.5	1.5	20	5	2	<1	<1	<1	(Chiba/Tokyo Prefectures)
			Lower layer					4.5	5	3	<1	<1	<1		
			Surface layer	2012/10/18	Rain	5.3	0.5	1.2	24	5	2	<1	<1	<1	
			Lower layer					4.3	6	2	<1	<1	<1		
8	Southwestern area of Toyosu Wharf	Offshore of Sumidagawa River Estuary	Surface layer	2012/9/20	Sunny	11.1	0.5	1.6	17	3	2	<1	<1	<1	(Tokyo Prefecture)
			Lower layer					10.1	4	2	<1	<1	<1		
			Surface layer	2012/10/18	Rain	10.8	0.5	2.3	36	3	2	<1	<1	<1	
			Lower layer					9.8	46	3	2	<1	<1	<1	

○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 sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137		Total		
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	2012/10/3	Rain	9.3	5	51	Silt	<30	<10	15	15	(Chiba Prefecture)
			2012/11/5	Cloudy	9.6	2	51	Silt	<30	<10	<10	-	
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	2012/10/3	Rain	8.6	3	56	Silt	<30	<10	15	15	(Chiba Prefecture)
			2012/11/5	Cloudy	8.8	2	65	Silt	<30	12	15	27	
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	2012/10/3	Rain	5.0	2	73	Silt	<30	<10	<10	-	(Chiba Prefecture)
			2012/11/5	Cloudy	4.9	2	72	Silt	<30	<10	16	16	
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	2012/10/3	Cloudy	7.3	5	60	Silt	<30	21	39	60	(Chiba Prefecture)
			2012/11/5	Cloudy	6.9	2	69	Silt	<30	<10	12	12	
5	Approx. 1 km offshore of Edogawa River Estuary	Coastal area of Keiyo Port (Edogawa River Estuary)	2012/10/3	Cloudy	3.1	3	71	Silt	<30	<10	13	13	(Chiba Prefecture)
			2012/11/5	Cloudy	5.3	2	71	Sand	<30	<10	<10	-	
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	2012/10/18	Rain	8.0	10	64	Silt	<30	140	240	380	(Tokyo Prefecture) New sampling point
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	2012/9/20	Sunny	5.5	5	57	Silt	<30	170	270	440	(Chiba/Tokyo Prefectures)
			2012/10/18	Rain	5.3	10	60	Silt	<30	170	250	420	
8	Southwestern area of Toyosu Wharf	Offshore of Sumidagawa River Estuary	2012/9/20	Sunny	11.1	5	43	Silt	<30	<10	<10	-	(Tokyo Prefecture)
			2012/10/18	Rain	10.8	10	46	Silt	<30	28	44	72	

