

(News Release)
The Results of Radioactive Material Monitoring of the Surface Water Bodies
within Tochigi Prefecture
(2nd Time)

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Water Environment Division,
Environment Management Bureau,
Ministry of the Environment
Direct line: 03-5521-8316
Switchboard: 03-3581-3351
Director: Nobuo Yoshida (ext. 6610)
Deputy Director: Tetsuo Furuta (ext. 6614)
Coordinator: Hiroaki Hase (ext. 6628)

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 Tochigi Prefecture during the period of February 20-29 (2nd time) 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

58 environmental reference points, etc. in the surface water bodies within Tochigi Prefecture
(Rivers: 54 locations, Lakes: 4 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive iodine (I-131), 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.)

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

- Radioactive iodine (I-131) Not detectable (ND) at any locations (* ND at any locations)
- Radioactive cesium (Cs-134, Cs-137) ND at any locations
(* Detected at one location (Cs-134: ND, Cs-137: 1Bq/L))

*“Regulatory Guide: Emergency Preparedness for Nuclear Facilities (Nuclear Safety Commission)”
Standards for Restrictions on the Intake of Food and Drink (Drinking Water)

Radioactive iodine (I-131): 300Bq/kg or more

Radioactive cesium (total for Cs-134 + Cs-137): 200Bq/kg or more

(2) Sediment

- Radioactive iodine (I-131) ND at any location (Lower detection limit: 30Bq/kg (dried mud))
(* ND at any location)

- Radioactive cesium

(Rivers)

Cs-134: ND-990Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: ND-1,300Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

(* Cs-134: ND-2,200Bq/kg, Cs-137: ND-2,700Bq/kg)

(Lakes)

Cs-134: 66-2,800Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: 110-3,900Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

(* Cs-134: ND-1,900Bq/kg, Cs-137: ND-2,500Bq/kg)

(3) Surrounding Environment

- Radioactive iodine (I-131) : ND at any location (Lower detection limit: 30Bq/kg (dry))
- Radioactive cesium

(Rivers)

Cs-134: 11-7,500Bq/kg (dry)

Cs-137: 21-10,000Bq/kg (dry)

(* Cs-134: ND-7,600Bq/kg, Cs-137: 11-9,400Bq/kg)

(Lakes and headwaters)

Cs-134: 1,900-5,400Bq/kg (dry)

Cs-137: 2,700-7,400Bq/kg (dry)

(* Cs-134: 110-1,500Bq/kg, Cs-137: 150-1,900Bq/kg)

- Spatial dose

(Rivers) 0.08-0.76 μ Sv/h

(Lakes and headwaters) 0.25-0.40 μ Sv/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

No.	Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	General items						Concentration of radioactive material Bq/L			Remarks					
	Water body	Point	Municipality					Water temperature °C	Sampling depth m	Transparency cm	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium							
															Cs-134	Cs-137						
1	Nakagawa River	Nakagawa River	Ikuyobashishita	Nasushiobarashi City	2012/2/22	Clear	5.2	0.30	8.6	0.0	100 or more	19.6	1	0.5	<1	<1	<1					
2		Nakagawa River	Komeibashi Bridge	Nasushiobarashi City	2012/2/22	Clear	5.4	0.30	5.6	0.0	100 or more	19.4	<1	0.8	<1	<1	<1					
3		Takaomatagawa River	Takaomatabashi Bridge	Nasumachi Town	2012/2/22	Clear	6.5	0.35	6.2	0.0	100 or more	18.2	1	0.9	<1	<1	<1					
4		Yukawa River	Yukawabashi Bridge	Nasumachi Town	2012/2/22	Clear	5.0	0.40	8.8	0.0	100 or more	39.4	3	3.3	<1	<1	<1					
5		Nakagawa River	Kamikuroiso	Nasushiobarashi City	2012/2/23	Rain	3.8	0.30	5.2	0.0	100 or more	25.7	5	3.9	<1	<1	<1					
6		Yosagawa River	Yosabashi Bridge	Nasumachi Town	2012/2/22	Sunny	5.4	0.30	7.2	0.0	100 or more	18.4	1	0.7	<1	<1	<1					
7		Kurokawa River	Shindenbashi Bridge	Nasumachi Town	2012/2/23	Rain	5.2	0.30	5.0	0.0	100 or more	16.7	4	3.1	<1	<1	<1					
8		Yosagawa River	Kawadabashi Bridge	Otarashi City	2012/2/23	Rain	5.8	0.50	5.0	0.0	71	15.4	10	7.5	<1	<1	<1					
9		Nakagawa River	Kurobane	Otarashi City	2012/2/23	Cloudy	8.8	0.40	8.0	0.0	100 or more	16.7	4	3.3	<1	<1	<1					
10		Matsubagawa River	Tributary	Otarashi City	2012/2/23	Cloudy	7.4	0.40	5.0	0.0	65	9.1	18	11	<1	<1	<1					
11		Sabigawa River	Udagawabashi Bridge	Otarashi City	2012/2/28	Cloudy	5.5	0.15	10.8	0.0	100 or more	14.8	3	2.0	<1	<1	<1					
12		Momuragawa River	Momuranakabashi Bridge	Otarashi City	2012/2/24	Sunny	12.6	0.40	4.2	0.0	100 or more	18.8	1	0.8	<1	<1	<1					
13		Hokigawa River	Yunohara	Nasushiobarashi City	2012/2/28	Cloudy	1.5	0.50	6.8	0.0	100 or more	27.4	1	1.1	<1	<1	<1					
14		Hokigawa River	Sekibashi Bridge	Nasushiobarashi City	2012/2/29	Snow	1.0	0.35	4.5	0.0	100 or more	26.6	2	1.4	<1	<1	<1					
15		Hokigawa River	Iwabashi Bridge	Otarashi City	2012/2/24	Sunny	11.0	0.50	7.0	0.0	100 or more	22.0	1	1.2	<1	<1	<1					
16		Hokigawa River	Hokigawabashi Bridge	Otarashi City	2012/2/23	Cloudy	11.2	0.40	9.8	0.0	81	17.9	10	7.2	<1	<1	<1					
17		Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2012/2/24	Sunny	8.2	0.30	0.4	0.0	100 or more	17.9	3	2.7	<1	<1	<1					
18		Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2012/2/24	Sunny	10.2	0.40	4.4	0.0	100 or more	11.6	2	3.8	<1	<1	<1					
19		Arakawa River	Saikachibashi Bridge	Shioyamachi Town	2012/2/22	Sunny	11.2	0.50	6.1	0.0	100 or more	7.4	1	1.8	<1	<1	<1					
20		Arakawa River	Renjobashi Bridge	Sakurashi City	2012/2/22	Sunny	10.5	0.60	10.4	0.0	100 or more	14.3	2	1.5	<1	<1	<1					
21		Uchikawa River	Tanakabashi Bridge	Yaitashi City	2012/2/22	Sunny	6.4	0.20	5.6	0.0	100 or more	74.6	1	1.3	<1	<1	<1					
22		Uchikawa River	Asahibashi Bridge	Sakurashi City	2012/2/22	Sunny	6.6	0.90	10.1	0.0	13	21.5	37	45	<1	<1	<1					
23		Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2012/2/23	Rain	5.9	0.30	6.7	0.0	100 or more	20.6	5	3.5	<1	<1	<1					
24		Egawa River	Tributary	Nasukarasuyamashi City	2012/2/23	Rain	6.1	0.50	5.6	0.0	42	18.3	7	7.1	<1	<1	<1					
25	Tonogawa River	Kinugawa River	Kinugawa River	Kawaji Daichi Power Station, front	Nikkoshi City	2012/2/27	Sunny	-0.8	0.40	5.4	0.0	100 or more	8.4	1	2.4	<1	<1	<1				
26			Ojikagawa River	Tributary	Nikkoshi City	2012/2/27	Cloudy	0.4	0.35	5.9	0.0	100 or more	10.8	<1	0.2	<1	<1	<1				
27			Kinugawa River	Kosagoe	Nikkoshi City	2012/2/24	Sunny	1.2	0.50	5.0	0.0	100 or more	14.7	2	1.6	<1	<1	<1				
28			Itaanagawa River	Tributary	Nikkoshi City	2012/2/24	Sunny	6.2	0.40	4.8	0.0	100 or more	7.8	<1	0.7	<1	<1	<1				
29			Daiyagawa River	Shinkyo Bridge	Nikkoshi City	2012/2/26	Cloudy	4.1	0.30	6.2	0.0	100 or more	12.2	<1	<0.1	<1	<1	<1				
30			Shidobuchigawa River	Sujichigabashi Bridge	Nikkoshi City	2012/2/26	Cloudy	5.4	0.15	6.1	0.0	100 or more	13.9	1	1.6	<1	<1	<1				
31			Daiyagawa River	Kaishinbashi Bridge (Harigai)	Nikkoshi City	2012/2/22	Sunny	3.8	0.50	9.7	0.0	100 or more	13.1	2	0.9	<1	<1	<1				
32			Kinugawa River	Sanuki	Shioyamachi Town	2012/2/22	Sunny	5.8	1.20	7.6	0.0	100 or more	13.3	2	1.3	<1	<1	<1				
33			Nishikinugawa River	Nishikinugawabashi Bridge	Utsunomiya City	2012/2/23	Rain	5.8	1.20	5.7	0.0	100 or more	14.0	4	2.4	<1	<1	<1				
34			Kinugawa River	Kinugawabashi Bridge (Hoshakuji Temple)	Utsunomiya City	2012/2/23	Rain	5.6	1.00	6.9	0.0	100 or more	13.9	2	1.3	<1	<1	<1				
35			Kinugawa River	Daidoizumibashi Bridge	Mookashi City	2012/2/21	Sunny	7.8	0.40	8.1	0.0	100 or more	21.5	1	1.5	<1	<1	<1				
36			Egawa River	Tributary	Shimotsukeshi City	2012/2/21	Sunny	6.6	0.30	7.0	0.0	100 or more	23.3	3	4.2	<1	<1	<1				
37			Akaborigawa River	Nikko City Hall, front	Nikkoshi City	2012/2/24	Sunny	9.2	0.30	8.7	0.0	100 or more	12.9	1	1.1	<1	<1	<1				
38			Akaborigawa River	Kiwadajima	Nikkoshi City	2012/2/24	Sunny	8.1	0.40	10.4	0.0	100 or more	15.9	2	1.4	<1	<1	<1				
39			Tagawa River	Ozobashi Bridge	Utsunomiya City	2012/2/23	Cloudy	8.8	0.80	9.4	0.0	100 or more	19.6	23	13	<1	<1	<1				
40			Kamagawa River	Tsukushibashi Bridge	Utsunomiya City	2012/2/23	Cloudy	9.2	0.30	9.2	0.0	100 or more	54.8	17	13	<1	<1	<1				
41			Tagawa River	Meijibashi Bridge	Kaminokawamachi Town	2012/2/21	Sunny	11.2	0.20	11.5	0.0	100 or more	27.9	4	2.9	<1	<1	<1				
42			Tagawa River	Yanabashi Bridge	Oyamashi City	2012/2/21	Clear	8.5	0.50	8.4	0.0	100 or more	32.7	2	2.3	<1	<1	<1				
43			Systera River	Riwa River	Omoigawa River	Kurokawa River	Kajimabashi Bridge	Kanumashi City	2012/2/20	Clear	10.4	0.25	6.8	0.0	100 or more	10.5	<1	0.2	<1	<1	<1	
44						Kurokawa River	Onaribashi Bridge	Mibumachi Town	2012/2/20	Clear	9.4	0.20	12.0	0.0	100 or more	21.2	1	0.9	<1	<1	<1	
45						Oashigawa River	Akaishibashi Bridge	Kanumashi City	2012/2/20	Clear	9.4	0.30	9.9	0.0	100 or more	14.2	<1	0.4	<1	<1	<1	
46						Koyabugawa River	Koyabubashi Bridge	Kanumashi City	2012/2/20	Clear	8.8	0.30	8.8	0.0	100 or more	17.2	1	1.6	<1	<1	<1	
47						Omoigawa River	Tamotsubashi Bridge	Tochigishi City	2012/2/20	Clear	10.4	0.40	11.1	0.0	100 or more	14.8	<1	0.7	<1	<1	<1	
48						Omoigawa River	Otomeohashi Bridge	Oyamashi City	2012/2/21	Clear	2.6	0.30	7.2	0.0	100 or more	23.3	6	4.5	<1	<1	<1	
49	Uzumagawa River	Uzumabashi Bridge				Tochigishi City	2012/2/24	Sunny	13.7	0.70	4.0	0.0	96	27.9	10	6.0	<1	<1	<1			
50	Systera River	Watarasegawa River	Watarasegawa River	Watarasegawa River intake weir at Sori Power Station	Nikkoshi City	2012/2/26	Cloudy	4.0	0.30	3.0	0.0	100 or more	10.6	<1	0.4	<1	<1	<1				
51			Watarasegawa River	Hajikabashi Bridge	Ashikagashi City	2012/2/22	Clear	10.4	0.40	8.1	0.0	100 or more	17.8	1	1.0	<1	<1	<1				
52			Watarasegawa River	Nakabashi Bridge	Ashikagashi City	2012/2/22	Clear	12.6	0.40	9.7	0.0	100 or more	18.4	2	2.0	<1	<1	<1				
53			Watarasegawa River	Wataraseohashi Bridge	Tatebayashi City	2012/2/22	Cloudy	8.3	0.30	10.1	0.0	100 or more	24.5	5	4.2	<1	<1	<1	Sample was collected near the previous point due to low water level.			
54			Watarasegawa River	Shinkaibashi Bridge	Tochigishi City	2012/2/22	Cloudy	6.9	0.40	9.9	0.0	100 or more	29.2	14	7.5	<1	<1	<1				

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

○River: Sediment Monitoring Results

No.	Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	General items				Concentration of radioactive material Bq/kg (dried mud)			Remarks				
	Water body	Point	Municipality					Mud temperature °C	Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium						
													Cs-134	Cs-137					
1	Nakagawa River	Nakagawa River	Ikuyobashishita	Nasushiobarashi City	2012/2/22	Clear	5.2	0.30	8.0	3	85.1	Sand with gravel	<30	34	62				
2		Nakagawa River	Komeibashi Bridge	Nasushiobarashi City	2012/2/22	Clear	5.4	0.30	5.8	3	81.6	Sand with gravel	<30	33	64				
3		Takaomatagawa River	Takaomatabashi Bridge	Nasumachi Town	2012/2/22	Clear	6.5	0.35	6.0	3	73.5	Sand with gravel	<30	550	740				
4		Yukawa River	Yukawabashi Bridge	Nasumachi Town	2012/2/22	Clear	5.0	0.40	7.4	3	72.7	Sand	<30	94	110				
5		Nakagawa River	Kamikuroiso	Nasushiobarashi City	2012/2/23	Rain	3.8	0.30	5.6	3	82.9	Sand with gravel	<30	42	74				
6		Yosagawa River	Yosabashi Bridge	Nasumachi Town	2012/2/22	Sunny	5.4	0.30	5.6	3	64.9	Gravel/silt with sand	<30	250	360				
7		Kurokawa River	Shindenbashi Bridge	Nasumachi Town	2012/2/23	Rain	5.2	0.30	4.6	3	67.9	Gravel with sand	<30	220	280				
8		Yosagawa River	Kawadabashi Bridge	Otararashi City	2012/2/23	Rain	5.8	0.50	5.2	3	78.6	Sand	<30	67	95				
9		Nakagawa River	Kurobane	Otararashi City	2012/2/23	Cloudy	8.8	0.40	8.0	3	81.4	Gravel with sand	<30	31	52				
10		Matsubagawa River	Tributary	Otararashi City	2012/2/23	Cloudy	7.4	0.40	6.2	3	83.3	Sand	<30	89	110				
11		Sabigawa River	Udagawabashi Bridge	Otararashi City	2012/2/28	Cloudy	5.5	0.15	10.3	5	68.2	Sand	<30	270	390				
12		Momuragawa River	Momuranakabashi Bridge	Otararashi City	2012/2/24	Sunny	12.6	0.40	3.6	3	79.9	Sand with gravel	<30	76	120				
13		Hokigawa River	Yunohara	Nasushiobarashi City	2012/2/28	Cloudy	1.5	0.50	6.8	5	72.5	Sand with gravel	<30	39	61				
14		Hokigawa River	Sekibashi Bridge	Nasushiobarashi City	2012/2/29	Snow	1.0	0.35	4.5	5	80.8	Gravel with sand	<30	43	58				
15		Hokigawa River	Iwabashi Bridge	Otararashi City	2012/2/24	Sunny	11.0	0.50	6.6	3	78.5	Sand	<30	19	31				
16		Hokigawa River	Hokigawabashi Bridge	Otararashi City	2012/2/23	Cloudy	11.2	0.40	9.6	3	79.5	Sand with gravel	<30	37	52				
17		Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2012/2/24	Sunny	8.2	0.30	5.6	3	85.7	Gravel with sand	<30	<10	14				
18		Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2012/2/24	Sunny	10.2	0.40	5.0	3	81.5	Sand with gravel	<30	11	15				
19		Arakawa River	Saikachibashi Bridge	Shiyoumachi Town	2012/2/22	Sunny	11.2	0.50	7.1	5	84.8	Gravel with sand	<30	120	180				
20		Arakawa River	Renjobashi Bridge	Sakurashi City	2012/2/22	Sunny	10.5	0.60	10.2	5	86.9	Sand with gravel	<30	13	20				
21		Uchikawa River	Tanakabashi Bridge	Yaitashi City	2012/2/22	Sunny	6.4	0.20	5.8	5	80.9	Gravel with sand	<30	51	79				
22		Uchikawa River	Asahibashi Bridge	Sakurashi City	2012/2/22	Sunny	6.6	0.90	9.8	5	83.6	Gravel with sand	<30	36	41				
23		Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2012/2/23	Rain	5.9	0.30	6.0	5	77.4	Gravel with sand	<30	310	430				
24		Egawa River	Tributary	Nasukarasuyamashi City	2012/2/23	Rain	6.1	0.50	4.2	5	74.2	Sand with gravel	<30	51	79				
25	Tonogawa River	Kinugawa River	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	2012/2/27	Sunny	-0.8	0.40	5.4	5	88.8	Gravel with sand	<30	17	23			
26			Ojikagawa River	Tributary	Nikkoshi City	2012/2/27	Cloudy	0.4	0.35	5.9	5	80.3	Gravel with sand	<30	13	19			
27			Kinugawa River	Kosagoe	Nikkoshi City	2012/2/24	Sunny	1.2	0.50	3.6	5	76.1	Sand with gravel	<30	28	35			
28			Itanagawa River	Tributary	Nikkoshi City	2012/2/24	Sunny	6.2	0.40	6.3	5	75.4	Sand with gravel	<30	120	170			
29			Daiyagawa River	Shinkyo Bridge	Nikkoshi City	2012/2/26	Cloudy	4.1	0.30	6.2	5	78.9	Sand with gravel	<30	54	69			
30			Shidobuchigawa River	Sujichigabashi Bridge	Nikkoshi City	2012/2/26	Cloudy	5.4	0.15	6.1	5	81.9	Sand with gravel	<30	170	230			
31			Daiyagawa River	Kaishinbashi Bridge (Harigai)	Nikkoshi City	2012/2/22	Sunny	3.8	0.50	9.2	5	73.7	Sand	<30	17	28			
32			Kinugawa River	Sanuki	Shiyoumachi Town	2012/2/22	Sunny	5.8	1.20	7.9	5	77.1	Gravel with sand	<30	77	100			
33			Nishikinugawa River	Nishikinugawabashi Bridge	Utsunomiyashi City	2012/2/23	Rain	5.8	1.20	6.1	5	65.8	Sand with gravel	<30	990	1,300			
34			Kinugawa River	Kinugawabashi Bridge (Hoshakuji Temple)	Utsunomiyashi City	2012/2/23	Rain	5.6	1.00	7.4	5	80.3	Sand with gravel	<30	<10	<10			
35			Kinugawa River	Daidoizumbashi Bridge	Mookashi City	2012/2/21	Sunny	7.8	0.40	10.2	3	74.9	Gravel/Sand with silt	<30	<10	12			
36			Egawa River	Tributary	Shimotsukeshi City	2012/2/21	Sunny	6.6	0.30	7.0	3	74.8	Sand with gravel	<30	230	320			
37			Akaborigawa River	Nikko City Hall, front	Nikkoshi City	2012/2/24	Sunny	9.2	0.30	8.1	5	77.8	Sand	<30	320	480			
38			Akaborigawa River	Kiwadajima	Nikkoshi City	2012/2/24	Sunny	8.1	0.40	7.9	5	84.5	Sand with silt	<30	44	81			
39			Tagawa River	Ozobashi Bridge	Utsunomiyashi City	2012/2/23	Cloudy	8.8	0.80	7.9	5	79.8	Sand with gravel	<30	25	32			
40			Kamagawa River	Tsukushibashi Bridge	Utsunomiyashi City	2012/2/23	Cloudy	9.2	0.30	8.9	5	86.3	Gravel with sand	<30	30	35			
41			Tagawa River	Meijibashi Bridge	Kaminokawamachi Town	2012/2/21	Sunny	11.2	0.20	11.5	5	96.0	Gravel	<30	<10	10			
42			Tagawa River	Yanabashi Bridge	Oyamashi City	2012/2/21	Clear	8.5	0.50	8.4	3	81.1	Sand with gravel	<30	93	130			
43			Systera River	Omoigawa River	Kurokawa River	Kajimabashi Bridge	Kanumashi City	2012/2/20	Clear	10.4	0.25	7.0	3	76.1	Sand with gravel	<30	38	55	
44					Kurokawa River	Onaribashi Bridge	Mibumachi Town	2012/2/20	Clear	9.4	0.20	10.0	3	86.1	Sand with gravel	<30	14	24	
45	Oashigawa River	Akaishibashi Bridge			Kanumashi City	2012/2/20	Clear	9.4	0.30	9.9	3	78.5	Sand	<30	<10	14			
46	Koyabugawa River	Koyabubashi Bridge			Kanumashi City	2012/2/20	Clear	8.8	0.30	5.1	3	46.1	Sand with silt	<30	380	480			
47	Omoigawa River	Tamotsubashi Bridge			Tochigishi City	2012/2/20	Clear	10.4	0.40	11.1	3	75.1	Sand	<30	31	35			
48	Omoigawa River	Otomeohashi Bridge			Oyamashi City	2012/2/21	Clear	2.6	0.30	7.0	3	73.5	Sand with gravel	<30	14	26			
49	Uzumagawa River	Uzumagawa River			Uzumabashi Bridge	Tochigishi City	2012/2/24	Sunny	13.7	0.70	4.0	3	80.0	Sand with gravel	<30	<10	<10		
50	Systera River	Watarasegawa River			Watarasegawa River	Watarasegawa River intake weir at Sori Power Station	Nikkoshi City	2012/2/26	Cloudy	4.0	0.30	3.0	5	82.4	Sand with gravel	<30	14	20	
51			Watarasegawa River	Hajikabashi Bridge	Ashikagashi City	2012/2/22	Clear	10.4	0.40	8.1	5	80.2	Sand with gravel	<30	18	30			
52			Watarasegawa River	Nakabashi Bridge	Ashikagashi City	2012/2/22	Clear	12.6	0.40	9.7	3	73.9	Sand with gravel	<30	120	180			
53			Watarasegawa River	Wataraseohashi Bridge	Tatebayashishi City	2012/2/22	Cloudy	8.3	0.30	9.0	3	81.3	Sand with gravel	<30	12	18			
54			Watarasegawa River	Shinkabashi Bridge	Tochigishi City	2012/2/22	Cloudy	6.9	0.40	9.7	3	77.3	Sand	<30	21	36			

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

OLake and Headwater: Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	General items						Concentration of radioactive material Bq/			Remarks
No.	Water body	Point					Water temperature °C	Sampling depth m	Secchi disk depth m	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137		
1	Nakagawa River System	Shiobara Dam Reservoir Center	2012/2/29	Snow	0.8	35.7	2.8	0.5	2.5	23.8	1	2.1	<1	<1	<1	
		1 m from the bottom	-	-	-	-	3.8	34.7	-	24.2	1	2.3	<1	<1	<1	
2		Ikari Dam Reservoir Center	2012/2/28	Clear	-2.2	69.0	2.1	0.5	5.4	8.1	1	1.3	<1	<1	<1	
		1 m from the bottom	-	-	-	-	3.3	68.0	-	8.3	1	2.4	<1	<1	<1	
3	Kinugawa River System	Kawaji Dam Reservoir Center	2012/2/28	Clear	5.6	80.5	4.8	0.5	2.4	7.6	1	3.2	<1	<1	<1	
		1 m from the bottom	-	-	-	-	4.8	79.5	-	7.6	2	3.3	<1	<1	<1	
4		Kawamata Dam Reservoir Center	2012/2/27	Sunny	-5.8	71.2	1.8	0.5	4.3	10.3	1	1.4	<1	<1	<1	
		1 m from the bottom	-	-	-	-	2.9	70.2	-	11.0	3	4.4	<1	<1	<1	

• Sampling points are listed from north to south.

OLake and Headwater: Sediment and Surrounding Environment Monitoring Results

Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	Sediment				Concentration of radioactive material Bq/kg (dried mud)			Surrounding environment (lake shore)				Remarks	
No.	Water body	Point					General items				Property			Radioactive iodine I-131	Radioactive cesium		Soil		
			Mud temperature °C	Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium Cs-134	Radioactive cesium Cs-137	Property	Concentration of radioactive material Bq/kg (dry)								
1	Nakagawa River System	Shiobara Dam Reservoir Center	2012/2/29	Snow	0.8	35.7	3.8	10	34.3	Silt	<30	660	930	Loamy	<30	3,800	5,300	0.50	(Sediment collected near the previous point)
2		Ikari Dam Reservoir Center	2012/2/28	Clear	-2.2	69.0	3.5	10	33.5	Silt	<30	2,800	3,900	Loamy	<30	1,900	2,700	0.25	
3	Kinugawa River System	Kawaji Dam Reservoir Center	2012/2/28	Clear	5.6	80.5	4.8	10	47.7	Silt	<30	260	350	Loamy	<30	5,400	7,400	0.40	
4		Kawamata Dam Reservoir Center	2012/2/27	Sunny	-5.8	71.2	2.9	5	29.1	Silt	<30	66	110	-	-	-	-	-	(Sample not collected for surrounding environment due to snow on the ground)

• Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd.

• Sampling points are listed from north to south.

