

(News Release)

The Results of Radioactive Material Monitoring of the Surface Water Bodies within Tochigi Prefecture (June-July Samples)

Friday, August 24, 2012
Water Environment Division,
Environment Management Bureau,
Ministry of the Environment
Direct line: 03-5521-8316
Switchboard: 03-3581-3351
Director: Tadashi Kitamura (ext. 6610)
Deputy Director: Tetsuo Furuta (ext. 6614)
Coordinator: Katsuhiko Sato (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 June 1-July 31 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

50 environmental reference points, etc. in the surface water bodies within Tochigi Prefecture
(Rivers: 49 locations, Lake and headwater: 1 location)

(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 (February))

(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))

(Rivers)

Cs-134: ND-180Bq/kg (dried mud)

Cs-137: ND-270Bq/kg (dried mud)

(* Cs-134: ND-990Bq/kg (dried mud))
(* Cs-137: ND-1,300Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134: 82Bq/kg (dried mud)
Cs-137: 130Bq/kg (dried mud)
(* Cs-134: 66-2,800Bq/kg (dried mud))
(* Cs-137: 110-3,900Bq/kg (dried mud))

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

(Rivers)

Cs-134: ND-5,200Bq/kg (dry)
Cs-137: 13-8,100Bq/kg (dry)
(* Cs-134: 11-7,500Bq/kg (dry))
(* Cs-137: 21-10,000Bq/kg (dry))
Spatial dose: 0.07-0.86 μ Sv/h

(Lakes and headwaters)

Cs-134: 34Bq/kg (dry)
Cs-137: 58Bq/kg (dry)
(* Cs-134: 1900-5,400Bq/kg (dry))
(* Cs-137: 2,700-7,400Bq/kg (dry))
Spatial dose: 0.08 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.

ORiver: Water Quality Monitoring Results

(Annex)

No.	Water body	Point	Municipality	Sampling date	Weather	Full depth m	General items					Concentration of radioactive material Bq/L			Remarks
							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	Komeibashi Bridge	Nasushiohara City	2012/6/19	Rain	0.20	0.0	>100	12	<1	1	<1	<1	<1	<1
2	Takaonutagawa River	Takaonutahashi Bridge	Nasumachi Town	2012/6/20	Sunny	0.70	0.0	58	10	5	1	<1	<1	<1	<1
3	Yukawa River	Yukawabashi Bridge	Nasumachi Town	2012/6/20	Sunny	0.30	0.0	68	15	9	3	<1	<1	<1	<1
4	Nakagawa River	Kamikuroiso	Nasushiohara City	2012/6/4	Sunny	0.30	0.0	>100	17	2	1	<1	<1	<1	<1
5	Yosasugawa River	Yosasubashi Bridge	Nasumachi Town	2012/6/22	Cloudy	0.30	0.0	>100	16	1	1	<1	<1	<1	<1
6	Kurokawa River	Shindenbashi Bridge	Nasumachi Town	2012/6/4	Sunny	1.10	0.0	>100	10	<1	1	<1	<1	<1	<1
7	Yosasugawa River	Kawadabashi Bridge	Nasumachi Town	2012/6/4	Sunny	0.20	0.0	>100	34	<1	1	<1	<1	<1	<1
8	Nakagawa River	Kurobane	Otawarashi City	2012/6/4	Sunny	0.50	0.0	>100	11	<1	<1	<1	<1	<1	<1
9	Matsubagawa River	Tributary		2012/6/20	Sunny	0.20	0.0	>100	13	<1	1	<1	<1	<1	<1
10	Sabigawa River	Udagawabashi Bridge		2012/6/5	Cloudy	0.40	0.0	>100	9	2	2	<1	<1	<1	<1
11	Monouragawa River	Monourakahashi Bridge	Nasushiohara City	2012/6/5	Cloudy	0.20	0.0	>100	12	<1	1	<1	<1	<1	<1
12	Sekibabashi Bridge	Nasushiohara City	Otawarashi City	2012/6/23	Cloudy	0.80	0.0	40	10	1	2	<1	<1	<1	<1
13	Iwahabashi Bridge	Nasushiohara City		2012/6/6	Cloudy	0.25	0.0	>100	18	<1	1	<1	<1	<1	<1
14	Hokigawa River	Hokigawabashi Bridge		2012/6/5	Cloudy	0.20	0.0	>100	15	2	1	<1	<1	<1	<1
15	Nakagawa River	Shimukabashi Bridge	Nakagawanachi Town	2012/6/5	Sunny	0.20	0.0	63	15	<1	1	<1	<1	<1	<1
16	Mumogawa River	Koseibashi Bridge	Nakagawanachi Town	2012/6/5	Sunny	0.30	0.0	>100	17	2	1	<1	<1	<1	<1
17	Sakachibabashi Bridge	Shoyamachi Town	Sakurashi City	2012/6/13	Cloudy	0.70	0.0	>100	6	<1	1	<1	<1	<1	<1
18	Aarakawa River	Renjibashi Bridge		2012/6/6	Cloudy	0.20	0.0	>100	11	3	1	<1	<1	<1	<1
19	Uchikawa River	Tanakabashi Bridge		2012/6/6	Cloudy	0.20	0.0	98	12	2	1	<1	<1	<1	<1
20	Asahibashi Bridge	Sakurashi City	Arakawa River	2012/6/6	Cloudy	0.40	0.0	>100	15	2	1	<1	<1	<1	<1
21	Mukadabashi Bridge	Sakurashi City		2012/6/5	Sunny	0.90	0.0	>100	14	1	1	<1	<1	<1	<1
22	Egawa River	Tributary		2012/6/23	Sunny	0.20	0.0	87	14	1	1	<1	<1	<1	<1
23	Itaauigawa River	Tributary	Kikugawa River	2012/6/27	Sunny	0.40	0.0	>100	23	14	20	6	<1	<1	<1
24	Daivagawa River	Shinkyo Bridge		2012/6/12	Cloudy	0.80	0.0	>100	6	<1	1	<1	<1	<1	<1
25	Shimogawa River	Shimogawa Bridge		2012/6/12	Cloudy	0.30	0.0	>100	11	1	1	<1	<1	<1	<1
26	Daiyagawa River	Katsuhisashi Bridge (Harigaya)	Nikkoshi City	2012/6/12	Rain	0.30	0.0	>100	11	<1	1	<1	<1	<1	<1
27	Kingawa River	Samaki		2012/6/12	Cloudy	0.70	0.0	>100	10	3	1	<1	<1	<1	<1
28	Nishikimogawa River	Nishikimogawabashi Bridge		2012/6/6	Cloudy	0.30	0.0	>100	10	11	2	<1	<1	<1	<1
29	Kingawa River	Kimugawabashi Bridge (Hoshakuji Temple)	Omoigawa River	2012/6/6	Cloudy	0.40	0.0	>100	10	1	1	<1	<1	<1	<1
30	Daidozumibashi Bridge	Mookashi City		2012/6/7	Sunny	0.20	0.0	>100	15	2	1	<1	<1	<1	<1
31	Egawa River	Tributary		2012/6/7	Sunny	0.80	0.0	>100	22	2	1	<1	<1	<1	<1
32	Akaborigawa River	Nikko City Hall, front	Nikkoshi City	2012/6/28	Cloudy	0.40	0.0	55	20	3	2	<1	<1	<1	<1
33	Omoigawa River	Nikkoshi City		2012/6/13	Cloudy	0.20	0.0	>100	11	<1	<1	<1	<1	<1	<1
34	Tagawa River	Ozobashi Bridge		2012/6/8	Sunny	0.60	0.0	>100	14	1	<1	<1	<1	<1	<1
35	Kamagawa River	Tsukubabashi Bridge	Tagawa River	2012/6/8	Sunny	0.40	0.0	97	24	<1	<1	<1	<1	<1	<1
36	Menibashi Bridge	Kanano-kawamachi Town		2012/6/8	Sunny	0.20	0.0	>100	24	3	1	<1	<1	<1	<1
37	Yanabashi Bridge	Oyanashi City		2012/6/7	Sunny	0.70	0.0	>100	23	2	1	<1	<1	<1	<1
38	Kajimabashi Bridge	Kanamashi City	Kurokawa River	2012/6/7	Sunny	0.30	0.0	>100	9	<1	<1	<1	<1	<1	<1
39	Omaribashi Bridge	Mihunachi Town		2012/6/7	Sunny	0.50	0.0	>100	16	<1	1	<1	<1	<1	<1
40	Oshigawa River	Akashibashi Bridge		2012/6/11	Cloudy	0.50	0.0	>100	6	1	<1	<1	<1	<1	<1
41	Koyabugawa River	Koyabubashi Bridge	R	2012/6/11	Cloudy	0.50	0.0	>100	15	<1	<1	<1	<1	<1	<1
42	Omoigawa River	Tamotabashi Bridge		2012/6/11	Sunny	0.60	0.0	>100	14	<1	<1	<1	<1	<1	<1
43	Watarasegawa River	Tochigishi City		2012/6/15	Sunny	0.50	0.0	96	19	5	2	<1	<1	<1	<1
44	Watarasegawa River	Oyamashi City	Watarasegawa River	2012/6/28	Cloudy	0.50	0.0	>100	14	2	1	<1	<1	<1	<1
45	Hajikabashi Bridge	Ashikagashi City		2012/6/14	Cloudy	1.00	0.0	50	23	6	2	<1	<1	<1	<1
46	Nakabashi Bridge	Ashikagashi City		2012/6/14	Cloudy	0.50	0.0	>100	12	<1	<1	<1	<1	<1	<1
47	Watarasegawa Bridge	Tatebayashi City	Watarasegawa River	2012/6/14	Cloudy	1.20	0.0	62	18	2	1	<1	<1	<1	<1
48	Shinakabashi Bridge	Tochigishi City		2012/6/14	Sunny	0.50	0.0	32	19	5	1	<1	<1	<1	<1
49				2012/6/28	Cloudy	0.50	0.0	41	16	9	3	<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.	Water body	Point	Municipality	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	Radioactive cesium Cs-134	Cs-137	
1	Nakagawa River	Komeibashi Bridge	Nasushiohbarashi City	2012/6/19	Rain	0.20	3	88	Sand	<30	57	82	
2	Takamotagawa River	Takaomatobashi Bridge	Nasumachi Town	2012/6/20	Sunny	0.70	3	86	Sand	<30	33	56	
3	Yukawa River	Yukawabashi Bridge		2012/6/20	Sunny	0.30	3	85	Sand	<30	31	48	
4	Nakagawa River	Kamikuroiso		2012/6/4	Sunny	0.30	5	92	Sand	<30	23	41	
5	Yosasagawa River	Yosasabashi Bridge		2012/6/22	Cloudy	0.15	3	85	Sand	<30	33	54	
6	Kurokawa River	Shindenbashi Bridge		2012/6/4	Sunny	0.30	3	89	Sand	<30	27	46	
7	Yosasagawa River	Kawadabashi Bridge		2012/6/4	Sunny	1.10	5	87	Sand	<30	65	110	
8	Nakagawa River	Kurobane	Otawarashi City	2012/6/4	Sunny	0.20	3	92	Sand	<30	40	62	
9	Matsubagawa River	Tributary		2012/6/26	Sunny	0.20	2	81	Sand	<30	120	200	
10	Sabigawa River	Udagawabashi Bridge		2012/6/5	Cloudy	0.40	5	91	Sand	<30	11	23	
11	Monmurgawa River	Monmuranakabashi Bridge		2012/6/5	Cloudy	0.20	3	87	Sand	<30	110	180	
12	Sekibabashi Bridge	Nasushiohbarashi City		2012/6/22	Cloudy	0.80	3	89	Sand	<30	32	44	
13	Hokigawa River	Iwaihashi Bridge	Otawarashi City	2012/6/6	Cloudy	0.25	5	89	Sand	<30	24	42	
14	Hokigawabashi Bridge			2012/6/5	Cloudy	0.20	5	94	Sand	<30	10	20	
15	Nakagawa River	Shinnakabashi Bridge		2012/6/26	Sunny	0.40	5	94	Sand	<30	21	30	
16	Mumogawa River	Koseibashi Bridge		2012/6/5	Sunny	0.65	5	91	Sand	<30	<10	12	
17	Araikawa River	Saikachibashi Bridge		2012/6/13	Cloudy	0.30	3	92	Sand	<30	<10	12	
18	Renjibashi Bridge	Sakurashiro City	Nakagawamachi Town	2012/6/6	Cloudy	0.20	5	89	Sand	<30	14	18	
19	Uchikawa River	Tanakabashi Bridge		2012/6/6	Cloudy	0.20	3	93	Sand	<30	28	50	
20	Asahibashi Bridge	Sakurashiro City		2012/6/6	Cloudy	0.40	5	91	Sand	<30	34	48	
21	Araikawa River	Mukadabashi Bridge		2012/6/5	Cloudy	0.90	5	88	Sand	<30	11	<10	
22	Egawa River	Tributary		2012/6/27	Sunny	0.20	1	89	Sand	<30	<10	12	
23	Kitaegawa River	Tributary	Shiroyamachi Town	2012/6/12	Cloudy	0.80	5	90	Sand	<30	46	74	
24	Daiyagawa River	Shinkyo Bridge		2012/6/13	Cloudy	0.30	10	90	Sand	<30	23	35	
25	Shidobuchigawa River	Sunichigabashi Bridge		2012/6/13	Cloudy	0.20	3	94	Sand	<30	100	170	
26	Daiyagawa River	Kaishinbashi Bridge (Harigai)		2012/6/12	Rain	0.30	10	91	Sand	<30	15	30	
27	Kimugawa River	Sanuki		2012/6/12	Cloudy	0.70	3	93	Sand	<30	11	<10	
28	Nishikinugawa River	Nishikinugawabashi Bridge		2012/6/6	Cloudy	0.30	5	87	Sand	<30	55	71	
29	Kimugawa River	Kimugawabashi Bridge (Hoshakuji Temple)		2012/6/6	Cloudy	0.40	5	87	Sand	<30	<10	10	
30	Sadozumibashi Bridge	Daodozumibashi Bridge		2012/6/6	Sunny	0.20	5	81	Sand	<30	14	13	
31	Egawa River	Tributary		2012/6/7	Sunny	0.30	5	86	Sand	<30	49	88	
32	Akaborigawa River	Nikkoku City Hall, front		2012/6/28	Cloudy	0.40	1	84	Sand	<30	84	130	
33	Tagawa River	Ozobashi Bridge	Utsunomiya City	2012/6/13	Cloudy	0.20	1	90	Sand	<30	180	270	
34	Kamagawa River	Tozukubashi Bridge		2012/6/13	Cloudy	0.60	5	85	Sand	<30	45	59	
35	Meijibashi Bridge	Kaminomakawamachi Town		2012/6/27	Sunny	0.60	5	90	Sand	<30	13	15	
36	Yanabashi Bridge	Oyamashi City		2012/6/6	Sunny	0.20	3	83	Sand	<30	23	46	
37	Tagawa River	Yanabashi Bridge		2012/6/7	Sunny	0.70	5	90	Sand	<30	34	52	
38	Kurokawa River	Kajimabashi Bridge	Omoigawa River	2012/6/7	Sunny	0.30	5	94	Sand	<30	11	<10	
39	Onanibashi Bridge	Mibumachi Town		2012/6/7	Sunny	0.50	5	85	Sand	<30	33	42	
40	Oshigawa River	Akaitsubashi Bridge		2012/6/11	Cloudy	0.50	3	92	Sand	<30	<10	15	
41	Koyabugawa River	Koyabuhashi Bridge		2012/6/11	Cloudy	0.20	2	92	Sand	<30	16	26	
42	Tamotsubashi Bridge	Tochigishi City		2012/6/7	Sunny	0.00	5	90	Sand	<30	<10	12	
43	Otomeohashi Bridge	Oyamashi City	Uzumagawa River	2012/6/1	Sunny	0.50	5	82	Sand	<30	66	88	
44	Watarasegawa River intake weir at Sori Power Station	Tochigishi City		2012/6/28	Cloudy	0.50	3	83	Sand	<30	12	22	
45	Hajikabashi Bridge	Ashikagashi City		2012/6/14	Cloudy	0.90	2	76	Sand	<30	58	77	
46	Nakabashi Bridge	Tatebayashishi City		2012/6/14	Cloudy	0.20	15	94	Sand	<30	13	23	
47	Watarasegawa River	Shinkabashi Bridge	Watarasegawa River	2012/6/1	Sunny	0.30	2	94	Sand	<30	<10	20	
48	Nakabashi Bridge	Tochigishi City		2012/6/28	Cloudy	0.50	2	77	Sand	<30	17	26	
49	Shinkabashi Bridge			2012/6/28	Cloudy	0.50	2	66	Sand	<30	66	98	

* 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

No.	Sampling point			Sampling date	Weather	Left bank						Right bank						Remarks			
	Water body	Point	Municipality			Property	Concentration of radioactive material			Air dose μSv/h	Property	Concentration of radioactive material			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	Nakagawa River	Komebashi Bridge	Nasushibarashi City	2012/6/19	Rainy	Loamy	<30	2,100	3,300	0.34	Loamy	<30	830	1,200	0.39						
2	Takamagawa River	Takamagabashi Bridge	Nasumachi Town	2012/6/20	Sunny	Loamy	<30	600	900	0.33	Loamy	<30	1,000	700	0.33						
3	Yukawa River	Yukawabashi Bridge	Nasumachi Town	2012/6/20	Sunny	Loamy	<30	1,000	1,600	0.33	Loamy	<30	600	920	0.31						
4	Nakagawa River	Kamikuriso	Nasumachi Town/Nasushibarashi City	2012/6/24	Sunny	Loamy	<30	780	1,300	0.36	Loamy	<30	790	1,100	0.30						
5	Yosagawa River	Yosasubashi Bridge	Nasumachi Town	2012/6/23	Cloudy	Sandy/Loamy	<30	1,900	2,900	0.51	Loamy	<30	1,200	1,900	0.32						
6	Kurokawa River	Shindrenbashi Bridge	Nasumachi Town	2012/6/24	Sunny	Loamy	<30	800	1,200	0.59	Loamy	<30	1,300	2,000	0.41						
7	Yosagawa River	Kawadabashi Bridge		2012/6/24	Sunny	Sandy	<30	79	100	0.15	Loamy	<30	1,400	2,000	0.45						
8	Nakagawa River	Kurobane	Otarawashi City	2012/6/26	Sunny	Loamy	<30	1,900	3,000	0.40	Loamy	<30	2,300	3,500	0.48						
9	Matsubagawa River	Tributary		2012/6/24	Sunny	Loamy	<30	160	240	0.19	Loamy	<30	230	350	0.13						
10	Sabigawa River	Udagawabashi Bridge		2012/6/26	Sunny	Loamy	<30	610	920	0.18	Loamy	<30	660	1,000	0.18						
11	Monragawa River	Memonmataishi Bridge		2012/6/23	Cloudy	Loamy	<30	190	300	0.18	Loamy	<30	390	620	0.17						
12	Sekihabashi Bridge	Nasushibarashi City		2012/6/22	Cloudy	Loamy	<32	2,400	3,800	0.82	Loamy	<42	5,200	8,100	0.86						
13	Iwahabashi Bridge	Otarawashi Bridge		2012/6/26	Cloudy	Loamy	<30	86	130	0.13	Loamy	<30	830	630	0.16						
14	Hokizawa River	Hokizawabashi Bridge	Otarawashi City	2012/6/25	Cloudy	Sandy/Loamy	<30	470	710	0.15	Loamy	<30	65	94	0.14						
15	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2012/6/26	Cloudy	Loamy	<30	370	550	0.15	Loamy	<30	380	560	0.12						
16	Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2012/6/25	Sunny	Loamy	<30	85	120	0.13	Loamy	<30	230	340	0.13						
17	Arikawa River	Saukahabashi Bridge	Shioyamachi Town	2012/6/13	Cloudy	Loamy	<30	180	270	0.11	Loamy	<30	320	470	0.10						
18	Uchikawa River	Renjibashi Bridge	Sakuramachi City	2012/6/6	Cloudy	Loamy	<30	600	870	0.18	Loamy	<30	420	680	0.18						
19	Arakawa River	Yatashii Bridge	Yatashii City	2012/6/6	Cloudy	Loamy	<30	130	200	0.16	Loamy	<30	190	300	0.16						
20	Uchikawa River	Akahabashi Bridge	Sakuramachi City	2012/6/6	Cloudy	Sandy	<30	250	390	0.15	Loamy	<30	240	850	0.16						
21	Arakawa River	Mukabashi Bridge		2012/6/25	Cloudy	Loamy	<30	84	130	0.09	Loamy	<30	210	320	0.09						
22	Egawa River	Tributary	Nasukarasuyamashi City	2012/6/23	Cloudy	Sandy/Loamy	<30	170	280	0.09	Loamy	<30	140	210	0.08						
23	Itoman River	Tributary		2012/6/13	Cloudy	Sandy/Loamy	<30	70	120	0.10	Loamy	<30	1,000	1,600	0.08						
24	Daiunagawa River	Shinkyo Bridge		2012/6/13	Cloudy	-	-	-	-	-	Loamy	<30	590	900	0.14	(Left bank) Soil not exposed					
25	Daiunagawa River	Shinkyo Bridge	Nikkoshi City	2012/6/13	Cloudy	-	-	-	-	-	Loamy	<30	1,100	1,800	0.24						
26	Shadoisugawa River	Sujichigahabashi Bridge		2012/6/13	Cloudy	Loamy	<30	460	710	0.25	Loamy	<30	320	420	0.26						
27	Daiunagawa River	Kashimabashi Bridge (Hiraga)		2012/6/12	Rain	Loamy	<30	1,100	1,700	0.28	Loamy	<30	820	1,300	0.24						
28	Kinugawa River	Sanuki	Shioyamachi Town	2012/6/12	Cloudy	Loamy	<30	640	950	0.24	Loamy	<30	590	950	0.24						
29	Nishikinugawa River	Nishikinugawabashi Bridge	Utsunomiya City	2012/6/6	Cloudy	Loamy	<30	84	140	0.10	Loamy	<30	85	130	0.09						
30	Kingugawa River	Kodouzumimabashi Bridge	Mookashi City	2012/6/7	Sunny	Loamy	<30	90	140	0.10	Loamy	<30	230	360	0.12						
31	Egawa River	Tributary	Shimotsukushi City	2012/6/27	Sunny	Loamy	<30	86	130	0.09	Loamy	<30	240	370	0.10						
32	Akaborigawa River	Nikkoshi City Hall	Nikkoshi City	2012/6/13	Cloudy	Loamy	<30	92	140	0.11	Loamy	<30	83	110	0.10						
33	Tagawa River	Kiwadaijima	Utsunomiya City	2012/6/13	Cloudy	Loamy	<30	450	680	0.12	Loamy	<30	280	430	0.13	(Left bank) Soil not exposed					
34	Tagawa River	Ozobashi Bridge	Utsunomiya City	2012/6/23	Sunny	Loamy	<30	210	280	0.08	Loamy	<30	260	440	0.09	(Right bank) Soil not exposed					
35	Kamusawa River	Tsukubashi Bridge		2012/6/23	Sunny	Loamy	<30	140	200	0.09	Loamy	<30	270	320	0.09						
36	Tagawa River	Meijibashi Bridge	Kannikawamachi Town	2012/6/7	Sunny	Loamy	<30	130	200	0.07	Loamy	<30	98	130	0.09						
37	Yanashibashi Bridge	Otsunashi City		2012/6/7	Sunny	Loamy	<30	82	120	0.09	Loamy	<30	40	71	0.07						
38	Kurokawa River	Kajimabashi Bridge	Kannikawamachi City	2012/6/7	Sunny	Loamy	<30	61	110	0.09	Loamy	<30	120	180	0.10						
39	Oshikugawa River	Mibunichi Town		2012/6/11	Cloudy	Sandy	<30	26	42	0.03	Loamy	<30	40	60	0.03						
40	Oshikugawa River	Akahabashi Bridge	Kannikawamachi City	2012/6/11	Cloudy	Loamy	<30	140	200	0.10	Loamy	<30	230	630	0.11						
41	Koyohabashi River	Koyohabashi Bridge		2012/6/11	Cloudy	Loamy	<30	160	220	0.10	Loamy	<30	220	350	0.11						
42	Tomotsubashi Bridge	Tochigishi City		2012/6/7	Sunny	Loamy	<30	89	130	0.09	Loamy	<30	340	500	0.10						
43	Omomigawa River	Okomecohshi Bridge	Oyamashi City	2012/6/28	Cloudy	Loamy	<30	200	320	0.11	Loamy	<30	110	160	0.10						
44	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/6/1	Sunny	Loamy	<30	300	470	0.13	Loamy	<30	160	270	0.10						
45	Watarasegawa River	Watarasegawa River intake weir at Sori Power Station	Nikkoshi City	2012/6/28	Cloudy	Loamy	<30	210	340	0.12	Loamy	<30	150	240	0.12						
46	Watarasegawa River	Watarasegawa River		2012/7/31	Sunny	Sandy	<30	17	25	0.19	Sandy	<30	340	540	0.30						
47	Hajikabashi Bridge	Ashikagashi City		2012/6/14	Cloudy	Loamy	<30	40	72	0.09	Loamy	<30	130	200	0.08						
48	Nakabashi Bridge	Tateyashishi City		2012/6/14	Cloudy	Loamy	<30	62	90	0.08	Loamy	<30	44	62	0.08						
49	Shinkabashi Bridge	Tochigishi City		2012/6/14	Sunny	Loamy	<30	42	59	0.08	Loamy	<30	150	210	0.11						
				2012/6/25	Cloudy	Loamy	<30	140	230	0.11	Loamy	<30	100	140	0.10						
							<30	280	420	0.10	Loamy	<30	1,600	2,300	0.12						

* 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

No.	Sampling point Point			Sampling date 2012/7/13	Weather Sunny, then cloudy	Full depth m 52.5	General items				Concentration of radioactive material Bq/L			Remarks
							Sampling depth m 0.5	Secchi disk depth m 4.2	Electrical conductivity mS/m 7	SS mg/L <1	Turbidity 1	Radioactive iodine I-131 <1	Radioactive cesium Cs-134 <1	Radioactive cesium Cs-137 <1
	Kinugawa River System	Kawamata Dam Reservoir	Center	Surface layer Lower layer										
1														

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

No.	Sampling point Point			Sampling date 2012/7/13	Weather Sunny, then cloudy	Full depth m 52.5	Sediment				Surrounding environment (lake shore)				Remarks
							General items			Concentration of radioactive material Bq/kg (dried mud)			Soil		
	Kinugawa River System	Kawamata Dam Reservoir	Center				Mud sampling depth cm 5	Mud content % 67	Property Silt	Radioactive iodine I-131 <30	Radioactive cesium Cs-134 82	Radioactive cesium Cs-137 130	Property Loamy	Concentration of radioactive material Bq/kg (dry) I-131 <30	Radioactive cesium Cs-134 34
1															

*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.

