

(News Release)
The Results of Radioactive Material Monitoring of the Surface Water Bodies
within Tochigi Prefecture
(July-October 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 Tochigi Prefecture during the period of July 30-October 18 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 Tochigi Prefecture
(Rivers: 56 locations, Lakes: 8 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 (* and ** denote the results of the previous two surveys (*June-July 2012; **October 2011)

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

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

<Reference>

Specification and Standards for Food, Food Additives, etc. in accordance with the Food Sanitation Act (Drinking Water) (Ministry of Health, Labour and Welfare Public Notice No.130, March 15, 2012)
Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

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

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

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

Overall, the levels of both the rivers and lakes/headwaters measured were around 500-1,000Bq/kg or below, and have generally remained constant.

(Rivers)

Cs-134+Cs-137: ND-1,780Bq/kg (dried mud) (*10-450Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134+Cs-137: 11-4,100Bq/kg (dried mud) (**ND-4,400Bq/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
Rivers	53 (49)	1 (0)	1 (0)	1 (0)	0 (0)	0 (0)	0 (0)
Lakes and headwaters	3 (5)	3 (1)	1 (0)	0 (0)	0 (0)	0 (1)	1 (0)

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

(Rivers)

Cs-134+Cs-137: 25-32,000Bq/kg (dry) (*13-13,300Bq/kg (dry))

Spatial dose: 0.06-0.86μSv/h

(Lakes and headwaters)

Cs-134+Cs-137: 94-4,700Bq/kg (dry) (**250-3,400Bq/kg (dry))

Spatial dose: 0.08-0.56μSv/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. (once in 1-3 months).

ORiver: Water Quality Monitoring Results

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	Nakagawa River	Ikuyobashishita	Nasushiobarashi City	2012/8/29	Sunny	0.2	0.0	>100	16	<1	0	<1	<1	<1		
				2012/9/18	Cloudy	0.6	0.0	>100	19	<1	0	<1	<1	<1		
		Komeibashi Bridge	Nasumachi Town	2012/9/10	Sunny	0.4	0.0	>100	15	<1	0	<1	<1	<1		
				2012/9/10	Sunny	0.2	0.0	>100	2	<1	0	<1	<1	<1		
		Yukawa River	Yukawabashi Bridge	Nasumachi Town	2012/9/10	Sunny	0.2	0.0	>100	3	2	1	<1	<1	<1	
					2012/8/1	Sunny	0.2	0.0	>100	20	<1	1	<1	<1	<1	
		5	Nakagawa River	Kamikuroiso	Nasumachi Town/ Nasushiobarashi City	2012/8/21	Sunny	0.2	0.0	>100	19	<1	0	<1	<1	<1
						2012/9/24	Cloudy	0.3	0.0	>100	18	1	1	<1	<1	<1
						2012/9/10	Sunny	0.1	0.0	>100	2	<1	0	<1	<1	<1
		6	Yosagawa River	Yosabashi Bridge	Nasumachi Town	2012/9/10	Sunny	0.4	0.0	>100	1	1	1	<1	<1	<1
2012/8/1	Sunny					0.4	0.0	>100	25	1	0	<1	<1	<1		
7	Kurokawa River	Shindenbashi Bridge	Otawarashi City	2012/8/21	Sunny	0.5	0.0	>100	13	<1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.6	0.0	95	34	2	1	<1	<1	<1		
				2012/8/1	Sunny	0.2	0.0	>100	16	<1	1	<1	<1	<1		
8	Yosagawa River	Kawadabashi Bridge	Otawarashi City	2012/8/21	Sunny	0.5	0.0	>100	13	<1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.6	0.0	95	34	2	1	<1	<1	<1		
				2012/8/1	Sunny	0.2	0.0	>100	15	<1	1	<1	<1	<1		
9	Nakagawa River	Kurobane	Otawarashi City	2012/9/25	Cloudy	0.2	0.0	97	16	2	1	<1	<1	<1		
				2012/8/22	Cloudy	0.1	0.0	>100	11	1	1	<1	<1	<1		
				2012/8/1	Sunny	0.4	0.0	>100	11	<1	1	<1	<1	<1		
10	Matsubagawa River	Tributary	Otawarashi City	2012/8/22	Cloudy	0.3	0.0	>100	10	<1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.7	0.0	>100	10	3	1	<1	<1	<1		
				2012/9/4	Cloudy	0.4	0.0	>100	13	<1	0	<1	<1	<1		
11	Sabigawa River	Udagawabashi Bridge	Nasushiobarashi City	2012/9/4	Cloudy	0.5	0.0	>100	18	<1	0	<1	<1	<1		
				2012/8/29	Sunny	0.2	0.0	>100	23	<1	1	<1	<1	<1		
				2012/9/18	Rain	0.3	0.0	97	26	3	1	<1	<1	<1		
12	Momuragawa River	Momuranakabashi Bridge	Nasushiobarashi City	2012/9/4	Cloudy	0.6	0.0	>100	20	2	1	<1	<1	<1		
				2012/9/4	Cloudy	0.4	0.0	>100	18	2	1	<1	<1	<1		
				2012/8/1	Sunny	0.3	0.0	59	16	1	1	<1	<1	<1		
13	Hokigawa River	Iwaibashi Bridge	Otawarashi City	2012/8/22	Sunny	0.6	0.0	>100	16	<1	1	<1	<1	<1		
				2012/8/22	Sunny	0.6	0.0	>100	16	<1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.2	0.0	>100	17	1	1	<1	<1	<1		
14	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2012/8/1	Sunny	0.2	0.0	>100	16	<1	1	<1	<1	<1		
				2012/8/22	Sunny	0.3	0.0	>100	10	1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.3	0.0	>100	18	1	1	<1	<1	<1		
15	Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2012/7/31	Sunny	0.5	0.0	>100	11	<1	1	<1	<1	<1		
				2012/8/22	Sunny	0.1	0.0	>100	11	<1	0	<1	<1	<1		
				2012/9/25	Cloudy	0.5	0.0	90	11	2	1	<1	<1	<1		
16	Arakawa River	Saikachibashi Bridge	Shioyamachi Town	2012/9/4	Rain	0.5	0.0	>100	7	<1	0	<1	<1	<1		
				2012/9/4	Sunny	0.4	0.0	>100	12	<1	1	<1	<1	<1		
				2012/9/4	Sunny	0.3	0.0	82	11	2	1	<1	<1	<1		
17	Uchikawa River	Tanakabashi Bridge	Sakurashi City	2012/9/4	Sunny	0.3	0.0	>100	82	11	2	1	<1	<1		
				2012/9/4	Sunny	0.3	0.0	>100	11	2	1	<1	<1	<1		
				2012/9/4	Sunny	0.5	0.0	>100	13	<1	1	<1	<1	<1		
18	Arakawa River	Makadabashi Bridge	Nasukarasuyamashi City	2012/7/31	Sunny	0.5	0.0	72	14	2	1	<1	<1	<1		
				2012/8/22	Sunny	0.2	0.0	>100	17	<1	1	<1	<1	<1		
				2012/9/25	Cloudy	0.6	0.0	93	13	2	1	<1	<1	<1		
19	Egawa River	Tributary	Nasukarasuyamashi City	2012/7/31	Sunny	0.2	0.0	90	16	1	1	<1	<1	<1		
				2012/8/22	Sunny	0.2	0.0	>100	16	2	1	<1	<1	<1		
				2012/9/25	Cloudy	0.3	0.0	50	15	9	2	<1	<1	<1		

ORiver: Water Quality Monitoring Results

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			
T o n e g a w a				K i n u g a w a	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	2012/8/30	Cloudy	0.4	0.0	>100	7	<1	1	<1
	2012/9/19	Rain	0.4					0.0	>100	10	<1	1	<1	<1	<1	
	2012/8/29	Sunny	0.5					0.0	100	9	<1	0	<1	<1	<1	
	Yamishigawa River	Maesawabashi Bridge	Nikkoshi City		2012/9/19	Rain	1.0	0.0	>100	16	<1	0	<1	<1	<1	
					2012/8/28	Sunny	0.3	0.0	>100	9	<1	1	<1	<1	<1	
					2012/9/19	Rain	0.4	0.0	>100	9	2	1	<1	<1	<1	
	Ojikagawa River	Tributary	Nikkoshi City		2012/8/31	Sunny	0.5	0.0	>100	8	2	1	<1	<1	<1	
					2012/9/19	Cloudy	0.3	0.0	>100	13	2	1	<1	<1	<1	
					2012/8/17	Sunny	0.6	0.0	>100	1	<1	0	<1	<1	<1	
	Iitaagawa River	Tributary	Nikkoshi City		2012/9/11	Sunny	0.5	0.0	>100	1	<1	0	<1	<1	<1	
					2012/8/27	Sunny	0.5	0.0	>100	17	<1	1	<1	<1	<1	
					2012/9/19	Cloudy	0.4	0.0	>100	17	2	1	<1	<1	<1	
	Daivagawa River	Shinkyo Bridge	Nikkoshi City		2012/9/3	Cloudy	0.2	0.0	>100	11	<1	0	<1	<1	<1	
					2012/9/3	Cloudy	0.3	0.0	>100	8	2	1	<1	<1	<1	
					2012/8/16	Rain	0.5	0.0	>100	1	<1	0	<1	<1	<1	
	Shidobuchugawa River	Suichugabashi Bridge	Nikkoshi City		2012/8/16	Rain	0.5	0.0	>100	1	<1	0	<1	<1	<1	
					2012/9/11	Sunny	0.2	0.0	>100	1	<1	1	<1	<1	<1	
					2012/9/11	Sunny	0.2	0.0	>100	1	<1	0	<1	<1	<1	
	Dayagawa River	Kaishimbashi Bridge (Harigai)	Nikkoshi City	2012/8/16	Sunny	0.2	0.0	>100	1	<1	0	<1	<1	<1		
				2012/9/11	Sunny	0.5	0.0	>100	1	<1	1	<1	<1	<1		
				2012/9/11	Sunny	0.2	0.0	>100	1	<1	0	<1	<1	<1		
	Kinugawa River	Sanuki	Shioyama Town	2012/9/11	Sunny	0.5	0.0	>100	1	<1	1	<1	<1	<1		
				2012/9/5	Sunny	0.4	0.0	31	10	10	2	<1	<1	<1		
				2012/9/5	Sunny	0.3	0.0	37	11	9	2	<1	<1	<1		
	Nishikinugawa River	Nishikinugawabashi Bridge	Utsunomiya City	2012/9/6	Cloudy	0.8	0.0	>100	15	2	1	<1	<1	<1		
				2012/7/31	Sunny	0.2	0.0	>100	17	3	1	<1	<1	<1		
				2012/8/23	Sunny	0.2	0.0	>100	20	<1	1	<1	<1	<1		
	Kinugawa River	Daidozumabashi Bridge	Mookashi City	2012/9/26	Sunny	0.3	0.0	53	24	8	1	<1	<1	<1		
				2012/9/26	Sunny	0.6	0.0	40	10	10	1	<1	<1	<1		
				2012/9/5	Sunny	0.2	0.0	>100	16	1	1	<1	<1	<1		
	Egawa River	Tributary	Shimotakeshi City	2012/7/31	Sunny	0.2	0.0	93	15	6	2	<1	<1	<1		
				2012/8/23	Sunny	0.3	0.0	>100	15	<1	0	<1	<1	<1		
				2012/9/26	Sunny	0.2	0.0	>100	16	1	0	<1	<1	<1		
	Akaborigawa River	Nikko City Hall, front	Nikkoshi City	2012/9/7	Sunny	0.2	0.0	>100	25	<1	0	<1	<1	<1		
				2012/9/6	Cloudy	0.4	0.0	>100	21	1	1	<1	<1	<1		
				2012/9/6	Cloudy	0.5	0.0	>100	21	6	1	<1	<1	<1		
Tagawa River	Ozobashi Bridge	Utsunomiya City	2012/9/26	Sunny	0.2	0.0	94	8	9	1	<1	<1	<1			
			2012/9/7	Sunny	0.2	0.0	>100	25	<1	0	<1	<1	<1			
			2012/9/26	Sunny	0.2	0.0	>100	16	1	0	<1	<1	<1			
Kamagawa River	Tsukushibashi Bridge	Kaminokawamachi Town	2012/9/7	Sunny	0.2	0.0	>100	25	<1	0	<1	<1	<1			
			2012/9/6	Cloudy	0.4	0.0	>100	21	1	1	<1	<1	<1			
			2012/9/6	Cloudy	0.5	0.0	>100	21	6	1	<1	<1	<1			
Tagawa River	Meijibashi Bridge	Oyamashi City	2012/9/6	Cloudy	0.4	0.0	>100	21	1	1	<1	<1	<1			
			2012/9/6	Cloudy	0.5	0.0	>100	21	6	1	<1	<1	<1			
			2012/9/20	Sunny	0.3	0.0	>100	15	2	1	<1	<1	<1			
W a t a r a s e g a w a	Omoigawa River	Kurokawa River	Kanjimabashi Bridge	Kamumashi City	2012/9/5	Sunny	0.3	0.0	94	8	9	1	<1	<1	<1	
					2012/9/6	Cloudy	0.6	0.0	>100	15	4	1	<1	<1	<1	
					2012/9/5	Sunny	0.3	0.0	>100	9	<1	0	<1	<1	<1	
Omoigawa River	Onarubashi Bridge	Mibumachi Town	2012/9/5	Sunny	0.3	0.0	>100	9	<1	0	<1	<1	<1			
			2012/9/5	Sunny	0.5	0.0	>100	16	3	1	<1	<1	<1			
			2012/9/6	Rain	0.3	0.0	>100	15	1	0	<1	<1	<1			
Omoigawa River	Otomobashi Bridge	Oyamashi City	2012/7/31	Cloudy	0.1	0.0	83	14	2	1	<1	<1	<1			
			2012/8/23	Sunny	0.3	0.0	>100	21	1	1	<1	<1	<1			
			2012/9/20	Sunny	0.3	0.0	>100	15	2	1	<1	<1	<1			
Uzumagawa River	Uzumagawa River	Tochigishi City	2012/7/30	Sunny	0.9	0.0	35	21	2	1	<1	<1	<1			
			2012/8/23	Sunny	1.0	0.0	>100	21	2	1	<1	<1	<1			
			2012/9/20	Sunny	0.7	0.0	87	28	3	1	<1	<1	<1			
Watarasegawa River	Watarasegawa River	Nikkoshi City	2012/8/24	Sunny	0.2	0.0	>100	10	1	1	<1	<1	<1			
			2012/9/20	Sunny	0.4	0.0	>100	9	<1	0	<1	<1	<1			
			2012/9/20	Cloudy	0.2	0.0	>100	13	2	1	<1	<1	<1			
Watarasegawa River	Watarasegawa River	Ashikagashi City	2012/9/20	Cloudy	0.3	0.0	>100	15	<1	1	<1	<1	<1			
			2012/9/20	Sunny	0.3	0.0	42	20	4	2	<1	<1	<1			
			2012/7/30	Sunny	0.2	0.0	32	20	8	2	<1	<1	<1			
Watarasegawa River	Watarasegawa River	Tatebuvashashi City	2012/7/30	Sunny	0.2	0.0	32	20	8	2	<1	<1	<1			
			2012/8/23	Sunny	0.2	0.0	47	24	5	2	<1	<1	<1			
			2012/9/20	Sunny	0.1	0.0	75	29	8	3	<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	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	Cs-134	Radioactive cesium Cs-137	Total		
1	Nakagawa River	Ikuyobashishita	Nasushiobarashi City	2012/8/29	Sunny	0.2	5	90	Sand	<30	19	23	42		
				2012/9/18	Cloudy	0.6	5	91	Sand/gravel	<30	34	59	93		
		Komebashi Bridge	Nasumachi Town	2012/9/10	Sunny	0.4	3	90	Sand	<30	28	50	78		
		Takaomatagawa River		Takaomatabashi Bridge	2012/9/10	Sunny	0.2	3	84	Sand	<30	63	99	162	
		Yukawa River		Yukawabashi Bridge	2012/9/10	Sunny	0.2	2	88	Sand	<30	31	44	75	
		2012/8/1		Sunny	0.2	3	93	Sand	<30	19	25	44			
		2012/8/21		Sunny	0.2	3	91	Sand	<30	27	45	72			
2012/9/24	Cloudy	0.3	3	90	Sand	<30	43	66	109						
2012/9/10	Sunny	0.1	5	80	Sand	<30	45	75	120						
6	Yosagawa River	Yosabashi Bridge	Nasumachi Town	2012/9/10	Sunny	0.4	5	91	Sand	<30	38	67	105		
7	Kurokawa River	Shindenbashi Bridge	Otawarashi City	2012/9/10	Sunny	0.4	5	91	Sand	<30	38	67	105		
8	Yosagawa River	Kawadabashi Bridge		2012/8/1	Sunny	0.4	3	87	Sand	<30	69	120	189		
				2012/8/21	Sunny	0.5	4	84	Sand	<30	89	150	239		
				2012/9/25	Cloudy	0.6	2	91	Sand	<30	47	92	139		
9	Nakagawa River	Kurobane		2012/8/1	Sunny	0.2	2	94	Sand	<30	17	37	54		
				2012/8/22	Cloudy	0.1	2	95	Sand	<30	15	19	34		
				2012/9/25	Cloudy	0.2	1	95	Sand/gravel	<30	42	60	102		
10	Matsubagawa River	Tributary	2012/8/1	Sunny	0.4	2	93	Sand	<30	40	74	114			
			2012/8/22	Cloudy	0.3	5	93	Sand	<30	45	70	115			
			2012/9/25	Cloudy	0.7	5	93	Sand	<30	21	41	62			
11	Subigawa River	Udagawabashi Bridge	Nasushiobarashi City	2012/9/4	Cloudy	0.4	5	84	Silt	<30	110	160	270		
12	Momuragawa River	Momuranakabashi Bridge		2012/9/4	Cloudy	0.5	3	87	Sand	<30	110	180	290		
13	Hokigawa River	Yunohara		2012/8/29	Sunny	0.2	5	87	Sand	<30	34	50	84		
Sekibabashi Bridge		2012/9/18		Rain	0.3	5	85	Sand	<30	37	61	98			
2012/9/4		Cloudy		0.6	5	90	Sand/gravel	<30	34	47	81				
15	Hokigawa River	Iwaibashi Bridge		Otawarashi City	2012/9/4	Cloudy	0.4	3	88	Sand	<30	30	49	79	
2012/8/1		Sunny			0.3	2	89	Sand	<30	21	33	54			
2012/8/22		Sunny	0.6		2	90	Sand	<30	14	20	34				
16	Hokigawabashi Bridge	Otawarashi City	2012/9/25	Cloudy	0.2	7	88	Sand	<30	21	31	52			
			2012/8/1	Sunny	0.2	2	96	Sand	<30	12	18	30			
			2012/8/22	Sunny	0.3	4	90	Sand	<30	40	67	107			
17	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2012/9/25	Cloudy	0.3	1	94	Sand/gravel	<30	16	22	38		
				2012/7/31	Sunny	0.5	4	94	Sand	<30	<10	14	24		
				2012/8/22	Sunny	0.1	1	94	Sand	<30	<10	14	24		
18	Mumogawa River	Koseibashi Bridge	Shoyamachi Town	2012/9/25	Cloudy	0.5	5	93	Sand/gravel	<30	11	23	34		
				2012/9/4	Rain	0.5	2	88	Sand	<30	380	640	1,020		
				2012/9/4	Sunny	0.4	5	87	Sand	<30	19	25	44		
19	Arakawa River	Saikachibashi Bridge	Sakurashi City	2012/9/4	Sunny	0.4	5	87	Sand	<30	19	25	44		
20	Arakawa River	Renjobashi Bridge	Sakurashi City	2012/9/4	Sunny	0.4	5	87	Sand	<30	19	25	44		
21	Uchikawa River	Tanabashi Bridge	Yaitashi City	2012/9/4	Sunny	0.3	3	92	Sand	<30	46	81	127		
22	Uchikawa River	Asahibashi Bridge	Sakurashi City	2012/9/4	Sunny	0.5	5	91	Sand	<30	45	69	114		
23	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2012/7/31	Sunny	0.5	3	87	Sand	<30	17	32	49		
				2012/8/22	Sunny	0.2	4	88	Sand	<30	11	19	30		
				2012/9/25	Cloudy	0.6	4	81	Sand	<30	31	53	84		
				2012/7/31	Sunny	0.2	3	93	Sand	<30	19	33	52		
24	Egawa River	Tributary	Nasukarasuyamashi City	2012/8/22	Sunny	0.2	4	93	Sand	<30	21	30	51		
				2012/9/25	Cloudy	0.3	3	91	Sand/gravel	<30	21	37	58		

○River: 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	Cs-134	Radioactive cesium Cs-137	Total			
25	T o n e g a w a R i v e r	K i n u g a w a R i v e r	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	2012/8/30	Cloudy	0.4	3	92	Sand	<30	15	21	36	
26			Yunishigawa River	Maesasabashi Bridge	Nikkoshi City	2012/9/19	Rain	0.4	2	94	Sand	<30	27	48	75	10
27			Ojikagawa River	Tributary	Nikkoshi City	2012/8/28	Sunny	0.3	3	93	Sand/gravel	<30	13	23	36	18
28			Kinugawa River	Kosogae	Nikkoshi City	2012/9/19	Rain	0.4	4	94	Sand	<30	<10	18	18	800
29			Itaanaagawa River	Tributary	Nikkoshi City	2012/8/31	Sunny	0.5	4	89	Sand	<30	310	490	490	780
30			Yukawa River	Tributary	Nikkoshi City	2012/9/19	Cloudy	0.3	4	92	Sand	<30	290	490	490	146
31			Daiyagawa River	Shinkyo Bridge	Nikkoshi City	2012/8/17	Sunny	0.6	3	90	Sand	<30	58	88	113	63
32			Shidobuchigawa River	Suichigaabashi Bridge	Nikkoshi City	2012/9/19	Cloudy	0.4	6	70	Sand	<30	19	41	60	37
33			Daiyagawa River	Kaishinbashi Bridge (Harigai)	Nikkoshi City	2012/9/3	Cloudy	0.2	2	92	Sand/gravel	<30	11	26	37	245
34			Kinugawa River	Sanuki	Shioyamachi Town	2012/9/3	Cloudy	0.3	2	94	Gravel	<30	95	150	245	24
35			Nishikinigawa River	Nishikinigawabashi Bridge	Utsunomiyashi City	2012/8/16	Rain	0.5	2	92	Sand	<30	11	13	24	109
36			Kinugawa River	Kinugawabashi Bridge (Hoshakujii Temple)	Utsunomiyashi City	2012/9/11	Sunny	0.2	1	91	Sand	<30	28	41	69	29
37			Kinugawa River	Daidozumabashi Bridge	Mookashi City	2012/8/16	Sunny	0.2	5	92	Gravel/sand	<30	11	18	29	68
38			Egawa River	Tributary	Shimotsukeshi City	2012/9/11	Sunny	0.5	3	93	Sand	<30	41	37	65	37
39			Akaborigawa River	Nikko City Hall, front	Nikkoshi City	2012/9/5	Sunny	0.4	3	93	Gravel	<30	28	37	65	24
40			Tagawa River	Ozobashi Bridge	Utsunomiyashi City	2012/9/5	Sunny	0.3	3	90	Sand	<30	11	13	24	30
41			Tagawa River	Ozobashi Bridge	Utsunomiyashi City	2012/9/6	Cloudy	0.8	3	85	Sand	<30	13	17	30	56
42			Kamagawa River	Tsukushibashi Bridge	Mookashi City	2012/7/31	Sunny	0.2	3	91	Sand	<30	22	34	56	62
43			Tagawa River	Meijibashi Bridge	Kaminokawamachi Town	2012/8/23	Sunny	0.2	5	92	Sand	<30	25	37	62	58
44			Tagawa River	Yanabashi Bridge	Oyamashi City	2012/9/26	Sunny	0.3	2	91	Sand/gravel	<30	22	36	58	1,780
45			Kurokawa River	Kaijimbashi Bridge	Kanumashi City	2012/9/3	Rain	0.6	5	74	Sand	<30	680	1,100	1,780	93
46			Oshigawa River	Onaribashi Bridge	Mibumashi Town	2012/9/11	Sunny	0.2	5	88	Sand	<30	31	62	93	104
47			Oshigawa River	Akaishibashi Bridge	Kanumashi City	2012/9/5	Sunny	0.3	3	92	Sand	<30	42	62	104	17
48			Kovabugawa River	Kovabubashi Bridge	Kanumashi City	2012/7/31	Sunny	0.3	2	89	Sand	<30	11	17	28	101
49			Omoigawa River	Tamotsubashi Bridge	Tochigishi City	2012/8/22	Sunny	0.3	1	92	Sand	<30	11	17	28	64
50			Omoigawa River	Otomoehashi Bridge	Oyamashi City	2012/9/26	Sunny	0.2	4	91	Sand/gravel	<30	37	64	101	78
51			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/7	Sunny	0.2	3	92	Gravel	<30	28	50	78	101
52			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/6	Cloudy	0.4	1	83	Gravel	<30	35	66	101	128
53			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/6	Cloudy	0.5	3	89	Gravel	<30	50	78	128	27
54			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/5	Sunny	0.3	3	88	Sand	<30	19	27	46	32
55			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/6	Cloudy	0.6	3	90	Gravel	<30	12	20	32	<10
56			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/5	Sunny	0.3	3	92	Sand	<30	<10	<10	<10	39
57			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/5	Sunny	0.5	4	93	Sand	<30	26	39	65	79
58			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/6	Rain	0.3	3	79	Sand	<30	25	54	79	106
59			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/7/31	Cloudy	0.1	2	72	Mud	<30	39	67	106	27
60			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/8/23	Sunny	0.3	3	91	Sand	<30	11	16	27	191
61			Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Sunny	0.3	3	72	Sand	<30	71	120	191	89
62	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/7/30	Sunny	0.9	2	67	Sludge	<30	29	60	89	89		
63	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/8/23	Sunny	1.0	5	79	Sludge	<30	40	49	89	34		
64	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Sunny	0.7	5	90	Sand	<30	12	22	34	38		
65	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/8/24	Sunny	0.2	5	91	Sand	<30	13	25	38	55		
66	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Sunny	0.4	5	92	Sand	<30	16	39	55	80		
67	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Cloudy	0.2	3	84	Sand	<30	30	50	80	22		
68	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Cloudy	0.3	6	92	Sand	<30	<10	22	22	67		
69	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Sunny	0.3	4	86	Sand	<30	24	43	67	127		
70	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/7/30	Sunny	0.2	3	82	Sand	<30	51	76	127	46		
71	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/8/23	Sunny	0.2	5	92	Sand	<30	17	29	46	45		
72	Uzumagawa River	Uzumagawa River	Tochigishi City	2012/9/20	Sunny	0.1	4	93	Sand/gravel	<30	17	28	45			

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

○River: Surrounding Environment Monitoring Results

No.	Sampling point			Sampling date	Weather	Left bank					Air dose μSv/h	Right bank					Remarks		
	Water body	Point	Municipality			Property	Concentration of radioactive material Baq/d (dry)					Total	Property	Concentration of radioactive material Baq/d (dry)				Air dose μSv/h	
							Radioactive iodine I-131	Cs-134	Cs-137	Total				Radioactive iodine I-131	Cs-134	Cs-137			Total
N a k a g a R i v e r	Nakagawa River	Banyobushihita	Nasushibarashi City	2012/9/18	Cloudy	-	-	-	-	-	-	-	Sandy/skeletal	<-30	490	830	1,320	0.17	Soil not exposed
				2012/8/29	Sunny	-	-	-	-	-	-	0.18	Sandy/skeletal	<-30	680	1,100	1,780	0.15	Soil not exposed
	Takamotagawa River	Takamatubashi Bridge	Nasumachi Town	2012/9/10	Sunny	Loamy	<-30	3,500	5,700	9,200	0.32	Loamy	<-30	960	1,600	2,560	0.27		
				2012/9/10	Sunny	Loamy	<-30	2,100	3,500	5,600	0.29	Loamy	<-30	1,100	1,800	2,900	0.33		
				2012/9/10	Sunny	Loamy	<-30	2,300	3,600	5,900	0.31	Loamy	<-30	2,400	3,800	6,200	0.44		
				2012/8/31	Sunny	Leaf mold	<-120	13,000	19,000	32,000	0.41	Loamy	<-30	1,400	2,100	3,500	0.28		
	Yokawa River	Yakawabashi Bridge	Nasumachi Town/ Nasushibarashi City	2012/8/21	Sunny	Loamy	<-30	1,600	2,600	4,200	0.37	Loamy	<-30	650	1,000	1,650	0.28		
				2012/9/24	Cloudy	Loamy	<-30	1,400	2,300	3,700	0.38	Loamy	<-30	750	1,300	2,050	0.26		
	Yosagawa River	Yosagabashi Bridge	Nasumachi Town	2012/9/10	Sunny	Loamy	<-30	3,500	5,700	9,200	0.52	Loamy	<-30	2,800	4,700	7,500	0.52		
				2012/9/10	Sunny	Loamy	<-31	5,000	8,100	13,100	0.55	Loamy	<-30	2,000	3,200	5,200	0.40		
8	Yosagawa River	Kawadabashi Bridge	Nasumachi Town	2012/8/1	Sunny	Loamy	<-30	1,600	2,700	4,300	0.28	Loamy	<-30	800	1,300	2,100	0.55		
				2012/8/21	Sunny	Loamy	<-30	1,400	2,200	3,600	0.29	Loamy	<-30	3,000	4,800	7,800	0.52		
				2012/9/25	Cloudy	Sandy	<-30	88	130	218	0.18	Loamy	<-30	2,200	3,700	5,900	0.60		
				2012/8/1	Sunny	Loamy	<-30	500	780	1,280	0.18	Loamy	<-30	330	530	860	0.14		
9	Nakagawa River	Kurobane	Otawarashi City	2012/8/23	Cloudy	Loamy	<-30	650	1,000	1,650	0.24	Loamy	<-30	650	1,000	1,650	0.14		
				2012/9/25	Cloudy	Loamy	<-30	510	880	1,390	0.19	Loamy	<-30	460	780	1,240	0.13		
				2012/8/1	Sunny	Sandy	<-30	290	440	730	0.16	Loamy	<-30	210	350	560	0.16		
10	Matsubagawa River	Tributary	Otawarashi City	2012/8/22	Cloudy	Loamy	<-30	320	520	840	0.16	Loamy	<-30	660	1,100	1,760	0.19		
				2012/9/25	Cloudy	Loamy	<-30	590	920	1,510	0.15	Loamy	<-30	520	880	1,400	0.21		
11	Sabagawa River	Utagwabashi Bridge	Otawarashi City	2012/8/4	Cloudy	Loamy	<-30	1,000	1,700	2,700	0.13	Sandy	<-30	77	120	197	0.13		
				2012/9/4	Cloudy	Loamy	<-30	580	990	1,570	0.20	Loamy	<-30	390	630	1,020	0.15		
	13	Yunohara	Nasushibarashi City	2012/8/29	Sunny	Loamy	<-30	570	970	1,540	0.23	Loamy/sandy	<-30	650	1,100	1,750	0.19		
				2012/9/18	Rain	Loamy	<-30	870	1,500	2,370	0.19	Leaf mold	<-30	900	1,600	2,500	0.21		
	14	Sekibashi Bridge	Nasushibarashi City	2012/8/4	Cloudy	Loamy	<-38	4,000	6,700	10,700	0.86	Loamy	<-30	2,100	3,500	5,600	0.86		
				2012/8/4	Cloudy	Loamy	<-30	470	760	1,230	0.15	Loamy	<-30	1,100	1,800	2,900	0.17		
	16	Hokigawabashi Bridge	Otawarashi City	2012/8/1	Sunny	Sandy	<-30	460	710	1,170	0.15	Loamy	<-30	190	290	480	0.13		
				2012/8/22	Sunny	Loamy	<-30	370	550	920	0.12	Loamy	<-30	270	420	690	0.11		
2012/9/25				Cloudy	Loamy	<-30	310	490	800	0.11	Loamy	<-30	260	430	690	0.11			
2012/8/1				Sunny	Loamy	<-30	330	520	850	0.09	Loamy	<-30	120	190	310	0.11			
17	Nakagawa River	Shimokabashi Bridge	Nakagawamachi Town	2012/8/22	Sunny	Loamy	<-30	280	440	720	0.09	Loamy	<-30	260	410	670	0.11		
				2012/9/25	Cloudy	Loamy	<-30	87	160	247	0.10	Loamy	<-30	150	240	390	0.11		
				2012/7/31	Sunny	Loamy	<-30	220	330	550	0.12	Loamy	<-30	83	140	223	0.11		
				2012/8/22	Sunny	Loamy	<-30	120	220	340	0.12	Loamy	<-30	72	130	202	0.11		
				2012/9/25	Cloudy	Loamy	<-30	210	330	540	0.12	Loamy	<-30	160	290	450	0.10		
19	Arakawa River	Sakakubashi Bridge	Shiwamachi Town	2012/8/4	Rain	Loamy	<-30	660	1,100	1,760	0.18	Loamy	<-30	290	460	750	0.17		
				2012/9/4	Sunny	Loamy/skeletal	<-30	200	340	540	0.10	Loamy/skeletal	<-30	320	490	810	0.09		
21	Uchikawa River	Fukubashi Bridge	Yataishi City	2012/8/4	Sunny	Skeletal/loamy	<-30	620	990	1,610	0.18	Skeletal/loamy	<-30	1,300	2,100	3,400	0.17		
				2012/9/4	Sunny	Loamy	<-30	220	360	580	0.11	Skeletal/loamy	<-30	390	660	1,050	0.10		
23	Arakawa River	Mikadabashi Bridge	Nasukaruyamashi City	2012/7/31	Sunny	Loamy	<-30	37	85	142	0.09	Loamy	<-30	130	220	350	0.09		
				2012/8/22	Sunny	Loamy	<-30	150	250	400	0.09	Loamy	<-30	90	140	230	0.08		
24	Egawa River	Tributary	Nasukaruyamashi City	2012/9/25	Cloudy	Loamy	<-30	150	210	360	0.10	Loamy	<-30	150	270	420	0.08		
				2012/7/31	Sunny	Loamy	<-30	210	340	550	0.09	Loamy	<-30	94	150	244	0.08		
				2012/8/22	Sunny	Sandy/loamy	<-30	200	310	510	0.09	Loamy	<-30	120	200	320	0.09		
				2012/9/25	Cloudy	Loamy	<-30	130	240	370	0.09	Loamy	<-30	130	240	370	0.08		

○River: Surrounding Environment Monitoring Results

No.	Sampling point			Sampling date	Weather	Left bank					Air dose μSv/h	Right bank					Remarks	
	Water body	Point	Municipality			Property	Concentration of radioactive material Bq/kg (dry)			Total		Property	Concentration of radioactive material Bq/kg (dry)			Total		Air dose μSv/h
							Radioactive iodine I-131	Cs-134	Cs-137				Radioactive iodine I-131	Cs-134	Cs-137			
T o n e u g a w a R i v e r	K i n o s h i g a w a R i v e r	Kawaji Daiichi Power Station, front	Nikkoshi City	2012/8/30	Closely	Loamy	<-30	470	780	1,250	0.21	Loamy	<-30	870	1,300	2,170	0.10	
				2012/8/31	Rain	Loamy	<-30	780	1,300	2,080	0.20	Loamy	<-30	1,300	2,100	3,400	0.20	
				2012/8/29	Sunny	Loamy	<-30	190	320	510	0.10	Loamy	<-30	290	480	760	0.14	
				2012/9/19	Rain	Leaf mold	<-30	1,200	2,000	3,200	0.13	Leaf mold	<-30	274	1,440	2,114	0.10	
				2012/8/28	Sunny	Sandy	<-30	140	240	380	0.11	Sandy	<-30	600	960	1,560	0.23	
				2012/9/19	Rain	Sandy	<-30	14	22	36	0.11	Sandy	<-30	500	850	1,350	0.25	
				2012/8/31	Sunny	Loamy	<-30	980	1,600	2,580	0.23	Loamy	<-30	440	730	1,170	0.27	
				2012/9/19	Closely	Loamy	<-30	1,600	1,000	2,600	0.26	Loamy	<-30	610	1,100	1,710	0.23	
				2012/8/17	Sunny	Loamy	<-30	740	1,100	1,840	0.20	Sandy	<-30	17	96	113	0.11	
				2012/9/11	Sunny	Loamy	<-30	1,400	2,300	3,700	0.32	Loamy	<-30	870	1,400	2,270	0.29	
	2012/8/27	Sunny	Loamy	<-30	20	56	85	0.11	-	-	-	-	-	-	Unable to collect soil			
	2012/9/19	Closely	Loamy	<-30	110	180	290	0.09	-	-	-	-	-	-	Unable to collect soil			
	2012/9/3	Closely	Loamy	<-30	390	640	1,030	0.18	Loamy/leaf mold	<-30	1,100	1,800	2,900	0.16				
	2012/9/3	Closely	Loamy/sandy/leaf mold	<-30	660	1,100	1,760	0.26	Loamy/leaf mold	<-30	1,900	3,100	5,000	0.23				
	2012/8/16	Rain	Loamy	<-30	270	590	860	0.22	Sandy	<-30	10	15	25	0.10				
	2012/9/11	Sunny	Loamy	<-30	1,204	1,900	3,100	0.24	Loamy	<-30	1,300	2,100	3,400	0.25				
	2012/8/16	Sunny	Loamy	<-30	710	1,100	1,810	0.21	Loamy	<-30	910	1,400	2,310	0.21				
	2012/9/11	Sunny	Loamy	<-30	580	970	1,550	0.23	Loamy	<-30	1,500	2,400	3,900	0.21				
	2012/8/8	Sunny	Loamy/skeletal	<-30	624	120	744	0.09	Loamy/skeletal	<-30	210	340	550	0.09				
	2012/9/5	Sunny	Loamy	<-30	83	160	243	0.08	Skeletal/loamy	<-30	380	610	990	0.12				
	2012/9/6	Closely	Sandy	<-30	96	180	276	0.09	Sandy	<-30	23	44	67	0.08				
	2012/7/31	Sunny	Loamy	<-30	200	300	500	0.10	Loamy	<-30	130	200	330	0.11				
	2012/8/23	Sunny	Loamy	<-30	79	120	199	0.10	Loamy	<-30	130	230	360	0.09				
	2012/9/26	Sunny	Loamy	<-30	94	170	264	0.10	Loamy	<-30	100	170	270	0.10				
	2012/8/3	Sunny	Sandy/skeletal/loamy	<-30	390	640	1,030	0.11	Loamy/skeletal	<-30	1,300	2,000	3,300	0.15				
2012/8/3	Sunny	Sandy/skeletal/loamy	<-30	390	640	1,030	0.11	Loamy/skeletal	<-30	860	1,390	2,250	0.13					
2012/7/31	Sunny	Sandy	<-30	150	250	400	0.07	Loamy	<-30	150	210	360	0.10					
2012/8/22	Sunny	Loamy	<-30	78	120	198	0.07	Loamy	<-30	170	300	470	0.10					
2012/9/26	Sunny	Loamy	<-30	130	200	330	0.08	Loamy	<-30	700	1,200	1,900	0.07					
2012/9/7	Sunny	Loamy	<-30	120	200	320	0.09	Loamy	<-30	800	1,400	2,200	0.09					
2012/9/6	Closely	Skeletal/loamy	<-30	210	330	540	0.08	Skeletal/loamy	<-30	170	280	450	0.08					
2012/9/6	Closely	Skeletal/loamy	<-30	140	230	370	0.09	Skeletal/loamy	<-30	275	480	755	0.08					
2012/9/3	Sunny	Loamy/skeletal	<-30	120	220	340	0.09	Loamy/skeletal	<-30	300	460	760	0.11					
2012/9/6	Closely	Loamy/skeletal	<-30	110	180	290	0.07	Loamy/skeletal	<-30	15	23	38	0.10					
2012/9/5	Sunny	Loamy/skeletal	<-30	160	290	450	0.11	Skeletal	<-30	250	400	650	0.11					
2012/8/4	Sunny	Skeletal/loamy	<-30	180	280	460	0.09	Skeletal/leaf mold/loamy	<-30	180	310	490	0.09					
2012/9/6	Rain	Loamy/skeletal	<-30	290	480	770	0.10	Loamy/skeletal	<-30	170	260	430	0.10					
2012/7/31	Closely	Loamy	<-30	270	460	730	0.12	Loamy	<-30	190	310	500	0.11					
2012/8/23	Sunny	Loamy	<-30	290	500	790	0.12	Loamy	<-30	310	490	800	0.10					
2012/9/20	Sunny	Loamy	<-30	290	510	800	0.12	Loamy	<-30	57	170	267	0.09					
2012/7/30	Sunny	Loamy	<-30	130	210	340	0.11	Loamy	<-30	120	190	310	0.10					
2012/8/22	Sunny	Loamy	<-30	150	240	390	0.12	Loamy	<-30	300	450	750	0.10					
2012/9/20	Sunny	Loamy	<-30	100	170	270	0.11	Loamy	<-30	160	260	420	0.09					
2012/8/24	Sunny	Sandy	<-30	130	220	350	0.21	Sandy	<-30	58	87	145	0.24					
2012/9/20	Sunny	Sandy	<-30	280	760	1,040	0.23	Sandy	<-30	37	60	97	0.29					
2012/9/20	Closely	Loamy	<-30	41	79	120	0.07	Loamy	<-30	220	380	600	0.10					
2012/9/20	Closely	Loamy	<-30	220	330	550	0.08	Loamy	<-30	110	210	320	0.09					
2012/9/20	Sunny	Loamy	<-30	120	200	320	0.09	Loamy	<-30	200	380	580	0.09					
2012/7/30	Sunny	Loamy	<-30	160	250	410	0.10	Loamy	<-30	120	180	300	0.11					
2012/8/23	Sunny	Loamy	<-30	180	290	470	0.10	Loamy	<-30	130	230	360	0.10					
2012/9/20	Sunny	Loamy	<-30	160	270	430	0.09	Loamy	<-30	220	330	550	0.10					

*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.

OLake 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		Cs-137
1	Nakagawa River System	Miyama Dam Reservoir	Center	Surface layer	2012/8/29	Sunny	16.8	0.5	0.6	11	<1	1	<1	<1	<1
				Lower layer				15.8		8	<1	1	<1	<1	<1
		Shiobara Dam Reservoir	Center	Surface layer	2012/10/3	Cloudy	26	0.5	0.7	10	3	2	<1	<1	<1
				Lower layer				25.0		10	4	3	<1	<1	<1
2	Nakagawa River System	Miyama Dam Reservoir	Center	Surface layer	2012/8/30	Sunny	17.7	0.5	0.6	20	1	1	<1	<1	<1
				Lower layer				16.7		20	10	7	<1	<1	<1
		Shiobara Dam Reservoir	Center	Surface layer	2012/10/3	Cloudy	19.7	0.5	0.3	10	11	10	<1	<1	<1
				Lower layer				18.7		14	5	2	<1	<1	<1
3	Kingawa River System	Kawaji Dam Reservoir	Center	Surface layer	2012/8/30	Sunny	60.2	0.5	1.0	8	<1	1	<1	<1	<1
				Lower layer				59.2		6	60	10	<1	<1	<1
		Ikari Dam Reservoir	Center	Surface layer	2012/10/4	Cloudy	77	0.5	0.1	7	2	1	<1	<1	<1
				Lower layer				76.0		7	13	20	<1	<1	<1
4	Kingawa River System	Ikari Dam Reservoir	Center	Surface layer	2012/8/31	Sunny	57.5	0.5	3.5	6	<1	1	<1	<1	<1
				Lower layer				56.3		6	<1	1	<1	<1	<1
		Kawamata Dam Reservoir	Center	Surface layer	2012/10/4	Sunny	58.1	0.5	3.3	7	<1	0	<1	<1	<1
				Lower layer				57.1		8	2	2	<1	<1	<1
5	Kingawa River System	Kawamata Dam Reservoir	Center	Surface layer	2012/10/5	Sunny	69.8	0.5	4.5	11	<1	0	<1	<1	<1
				Lower layer				68.8		14	17	9	<1	<1	<1
		Yunoko Lake	Center	Surface layer	2012/8/27	Sunny	12.4	0.5	2.2	14	<1	1	<1	<1	<1
				Lower layer				11.4		24	29	10	<1	<1	<1
6	Kingawa River System	Yunoko Lake	Center	Surface layer	2012/10/2	Cloudy, partly with light rain	12.2	0.5	2.3	15	<1	1	<1	<1	<1
				Lower layer				11.2		17	1	1	<1	<1	<1
		Chuzenjiko Lake	Center	Surface layer	2012/8/28	Sunny	170	0.5	9.3	10	<1	0	<1	<1	<1
				Lower layer				169.0		11	<1	1	<1	<1	<1
7	Kingawa River System	Chuzenjiko Lake	Center	Surface layer	2012/10/18	Cloudy	169	0.5	9.2	11	<1	1	<1	<1	<1
				Lower layer				168.0		12	<1	1	<1	<1	<1
		Watarase Reservoir	Center	Surface layer	2012/8/1	Cloudy	2.2	0.5	0.3	19	7	3	<1	<1	<1
				Lower layer				1.2		20	23	8	<1	<1	<1
8	Watarasegawa River	Watarase Reservoir	Center	Surface layer	2012/9/21	Rain	3.3	0.5	0.3	20	18	6	<1	<1	<1
				Lower layer				2.3		20	21	6	<1	<1	<1

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

Sampling point				Sampling date	Weather	Full depth m	Sediment				Surrounding environment (lake shore)					Remarks			
No.	Point						General items			Concentration of radioactive material Bq/kg (dried mud)				Soil					
				Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Cs-134	Radioactive cesium Cs-137	Total	Property	Radioactive iodine I-131	Cs-134	Radioactive cesium Cs-137	Total	Air dose μSv/h			
1	Nakagawa River System	Miyama Dam Reservoir	Center	2012/8/29	Sunny	16.8	10	48	Silt	<30	310	540	850	Loamy	<30	930	1,400	2,330	0.16
				2012/10/3	Cloudy	26	10	59	Silt	<30	<10	11	11	360	560	920	0.15		
		Shiobara Dam Reservoir	Center	2012/8/30	Sunny	17.7	10	53	Silt	<30	340	560	900	Loamy	<30	1,800	2,900	4,700	0.54
				2012/10/3	Cloudy	19.7	7	48	Silt	<30	380	620	1,000	Loamy	<30	1,800	2,900	4,700	0.56
3	Kingawa River System	Kawaji Dam Reservoir	Center	2012/8/30	Sunny	60.2	15	54	Silt	<30	260	430	690	Loamy/skeletal	<30	830	1,400	2,230	0.36
				2012/10/4	Cloudy	77	10	53	Silt	<30	280	470	750	Skeletal/loamy	<30	830	1,400	2,230	0.31
		Ikari Dam Reservoir	Center	2012/8/31	Sunny	57.5	10	54	Silt	<30	1,600	2,500	4,100	Loamy	<30	640	1,000	1,640	0.27
				2012/10/4	Sunny	58.1	10	50	Silt	<30	1,200	2,100	3,300	Loamy/skeletal	<30	730	1,200	1,930	0.25
5	Kingawa River System	Kawamata Dam Reservoir	Center	2012/10/5	Sunny	69.8	10	50	Silt	<30	70	120	190	Loamy/skeletal	<30	31	63	94	0.08
				2012/8/27	Sunny	12.4	5	29	Silt	<30	100	170	270	Loamy	<30	330	530	860	0.12
		Yunoko Lake	Center	2012/10/2	Cloudy, partly with light rain	12.2	10	25	Silt	<30	<10	28	28	Loamy	<30	360	600	960	0.11
				2012/8/28	Sunny	170	15	23	Silt	<30	460	720	1,180	Loamy	<30	830	1,300	2,130	0.15
7	Kingawa River System	Chuzenjiko Lake	Center	2012/10/18	Cloudy	169	10	26	Mud	<30	300	530	830	Loamy	<30	280	460	740	0.14
				2012/8/1	Cloudy	2.2	13	53	Silt	<30	65	100	165	Loamy	<30	130	180	310	0.09
		Watarase Reservoir	Center	2012/9/21	Rain	3.3	6	60	Silt	<30	50	84	134	Loamy	<30	120	200	320	0.10

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*Sampling points are listed from north to south.

