

(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 10-October 4, 2013 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 and headwaters: 8 location)

(2) Survey Method

- Measurement of concentrations of radioactive materials (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 (May-June 2013))

(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))

For rivers, levels were around 500Bq/kg or below at all locations. For lakes and headwaters, levels were around 1,500Bq/kg or below at most locations, and have generally remained constant or had a

declining tendency.

(Rivers)

Cs-134+Cs-137: ND-480Bq/kg (dried mud) (\*ND-530Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134+Cs-137: 106-5,100Bq/kg (dried mud) (\*177-2,530Bq/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	92 (68)	0 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	92 (69)
Lakes and headwaters	5 (5)	0 (1)	2 (1)	0 (0)	0 (0)	0 (1)	1 (0)	8 (8)

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

(Rivers)

Cs-134+Cs-137: 17-20,300Bq/kg (dry) (\*12-8,800Bq/kg (dry))

Spatial dose: 0.05-0.60μSv/h

(Lakes and headwaters)

Cs-134+Cs-137: 160-4,600Bq/kg (dry) (\*191-6,800Bq/kg (dry))

Spatial dose: 0.06-0.31μSv/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.

**ORiver: Water Quality Monitoring Results**

(Annex)

No.	Water body	Sampling point		Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks	
		Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium			
												Cs-134	Cs-137		
1	N a k a g a w a R i v e r S y s t e m	Nakagawa River	Ikyobashishita	Nasushiobarashi City	2013/8/20	Cloudy	0.4	0.0	>100	16	<1	0	<1	<1	
2		Nakagawa River	Komeibashi Bridge	Nasushiobarashi City	2013/8/20	Cloudy	0.4	0.0	>100	12	<1	0	<1	<1	
3		Takaomatagawa River	Takaomatabashi Bridge	Nasumachi Town	2013/8/20	Cloudy	0.2	0.0	>100	17	1	1	<1	<1	
4		Yukawa River	Yukawabashi Bridge	Nasumachi Town	2013/8/20	Cloudy	0.3	0.0	87	30	4	2	<1	<1	
5		Nakagawa River	Kamikuroiso	Nasushiobarashi City/ Nasumachi Town	2013/7/10	Sunny	0.2	0.0	>100	21	2	2	<1	<1	
		Nakagawa River	Kamikuroiso	Nasushiobarashi City/ Nasumachi Town	2013/8/20	Cloudy	0.4	0.0	>100	18	1	1	<1	<1	
		Nakagawa River	Kamikuroiso	Nasushiobarashi City/ Nasumachi Town	2013/9/18	Sunny	0.6	0.0	37	11	7	5	<1	<1	
6		Yosagawa River	Yosabashi Bridge	Nasumachi Town	2013/8/19	Sunny	0.4	0.0	>100	16	2	0	<1	<1	
7		Kurokawa River	Shindenbashi Bridge	Nasumachi Town	2013/8/19	Sunny	0.7	0.0	>100	11	4	1	<1	<1	
8		Yosagawa River	Kawadabashi Bridge	Otarashi City	2013/7/10	Sunny	0.2	0.0	96	14	3	2	<1	<1	
		Yosagawa River	Kawadabashi Bridge	Otarashi City	2013/8/19	Sunny	0.7	0.0	>100	12	2	1	<1	<1	
		Yosagawa River	Kawadabashi Bridge	Otarashi City	2013/9/18	Sunny	0.5	0.0	>100	14	5	2	<1	<1	
9		Nakagawa River	Kurobane	Otarashi City	2013/7/10	Sunny	0.3	0.0	88	17	2	2	<1	<1	
		Nakagawa River	Kurobane	Otarashi City	2013/8/19	Sunny	0.5	0.0	>100	15	1	1	<1	<1	
		Nakagawa River	Kurobane	Otarashi City	2013/9/18	Sunny	0.4	0.0	48	11	7	3	<1	<1	
10		Matsubagawa River	Tributary	Otarashi City	2013/7/10	Sunny	0.3	0.0	>100	12	2	1	<1	<1	
		Matsubagawa River	Tributary	Otarashi City	2013/8/19	Sunny	0.3	0.0	>100	10	2	1	<1	<1	
					2013/9/18	Sunny	0.6	0.0	87	7	4	1	<1	<1	
11		Sabigawa River	Udagawabashi Bridge	Otarashi City	2013/8/21	Sunny	0.3	0.0	69	11	7	1	<1	<1	
12		Momuragawa River	Momuranakabashi Bridge	Otarashi City	2013/8/21	Sunny	0.7	0.0	62	14	4	2	<1	<1	
13		Yunohara	Sekibabashi Bridge	Nasushiobarashi City	2013/7/30	Cloudy	0.5	0.0	>100	15	3	2	<1	<1	
14		Hokigawa River	Sekibabashi Bridge	Nasushiobarashi City	2013/8/21	Sunny	0.6	0.0	56	20	7	4	<1	<1	
15	Hokigawa River	Iwaibashi Bridge	Otarashi City	2013/8/21	Cloudy	0.4	0.0	47	15	11	4	<1	<1		
	Hokigawa River	Iwaibashi Bridge	Otarashi City	2013/7/10	Sunny	0.2	0.0	>100	17	2	2	<1	<1		
	Hokigawa River	Iwaibashi Bridge	Otarashi City	2013/8/22	Sunny	0.5	0.0	85	16	5	2	<1	<1		
16	Hokigawa River	Hokigawabashi Bridge	Otarashi City	2013/9/18	Sunny	0.6	0.0	35	13	18	7	<1	<1		
	Hokigawa River	Hokigawabashi Bridge	Otarashi City	2013/7/11	Sunny	0.2	0.0	>100	17	2	2	<1	<1		
	Hokigawa River	Hokigawabashi Bridge	Otarashi City	2013/8/21	Cloudy	0.6	0.0	58	13	11	3	<1	<1		
17	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2013/9/18	Sunny	0.5	0.0	42	13	7	3	<1	<1		
	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2013/7/10	Sunny	0.2	0.0	>100	13	1	1	<1	<1		
	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2013/8/23	Cloudy	0.6	0.0	55	11	7	2	<1	<1		
18	Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2013/9/19	Sunny	0.4	0.0	78	9	8	2	<1	<1		
	Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2013/8/22	Sunny	0.7	0.0	79	7	3	1	<1	<1		
19	Arakawa River	Saikachibashi Bridge	Shioyamachi Town	2013/8/22	Sunny	0.7	0.0	91	12	14	2	<1	<1		
20	Arakawa River	Renjobashi Bridge	Sakurashi City	2013/8/22	Sunny	0.7	0.0	91	12	14	2	<1	<1		
21	Uchikawa River	Tanakabashi Bridge	Yaitashi City	2013/8/22	Cloudy	0.9	0.0	72	10	9	3	<1	<1		
22	Uchikawa River	Asahibashi Bridge	Sakurashi City	2013/8/22	Cloudy	0.8	0.0	84	12	6	3	<1	<1		
23	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2013/7/11	Sunny	0.2	0.0	>100	17	1	2	<1	<1		
	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2013/8/23	Cloudy	0.5	0.0	>100	15	3	2	<1	<1		
	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2013/9/19	Sunny	0.7	0.0	41	12	4	3	<1	<1		
24	Egawa River	Tributary	Nasukarasuyamashi City	2013/7/11	Sunny	0.3	0.0	57	17	4	4	<1	<1		
	Egawa River	Tributary	Nasukarasuyamashi City	2013/8/23	Cloudy	0.7	0.0	33	17	37	7	<1	<1		
	Egawa River	Tributary	Nasukarasuyamashi City	2013/9/19	Sunny	0.9	0.0	38	14	9	3	<1	<1		

No.	Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks		
	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium				
												Cs-134	Cs-137			
25	T o n e g a w a  R i v e r  S y s t e m  R i v e r  S y s t e m  R i v e r  S y s t e m	K i n u g a w a	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	2013/8/13	Sunny	0.8	0.0	68	10	2	4	<1	<1	
26			Yunishigawa River	Maesawabashi Bridge		2013/8/13	Sunny	0.5	0.0	>100	8	<1	0	<1	<1	
27			Ojikagawa River	Tributary		2013/8/13	Sunny	0.4	0.0	>100	8	<1	1	<1	<1	
28			Kinugawa River	Kosagoe		2013/8/13	Sunny	0.5	0.0	>100	7	<1	1	<1	<1	
29			I t a n a g a w a R i v e r	T r i b u t a r y		I t a n a g a w a R i v e r	2013/7/12	Cloudy	0.2	0.0	>100	8	<1	0	<1	<1
							2013/8/13	Sunny	0.4	0.0	>100	7	<1	0	<1	<1
							2013/8/13	Sunny	0.4	0.0	>100	7	<1	0	<1	<1
							2013/9/20	Sunny	0.4	0.0	>100	6	3	2	<1	<1
30			Yukawa River			2013/8/14	Sunny	0.3	0.0	>100	18	<1	0	<1	<1	
31			Daiyagawa River	Shinkyo Bridge		2013/8/14	Sunny	0.3	0.0	>100	11	<1	0	<1	<1	
32			Shidobuchigawa River	Sujichigaibashi Bridge		2013/8/14	Sunny	0.2	0.0	>100	12	2	1	<1	<1	
33			D a i y a g a w a R i v e r	K a i s h i n b a s h i B r i d g e ( H a r i g a i )		D a i y a g a w a R i v e r	2013/7/12	Sunny	0.2	0.0	>100	14	2	1	<1	<1
							2013/8/15	Sunny	0.6	0.0	>100	13	<1	0	<1	<1
							2013/9/19	Sunny	0.3	0.0	>100	68	11	2	<1	<1
							2013/7/12	Cloudy	0.3	0.0	>100	11	3	2	<1	<1
34			K i n u g a w a R i v e r	S a n u k i		S h i o y a m a c h i T o w n	2013/8/15	Sunny	0.5	0.0	>100	12	1	1	<1	<1
							2013/10/2	Cloudy	0.4	0.0	>100	11	2	2	<1	<1
							2013/8/15	Sunny	0.7	0.0	>100	12	<1	1	<1	<1
							2013/10/2	Cloudy	0.4	0.0	>100	11	2	2	<1	<1
35			Nishikinugawa River	Nishikinugawabashi Bridge		Utsunomiyashi City	2013/8/15	Sunny	0.7	0.0	>100	12	<1	1	<1	<1
36			Kinugawa River	Kinugawabashi Bridge (Hoshakuji Temple)		Utsunomiyashi City	2013/8/15	Sunny	0.5	0.0	>100	14	<1	1	<1	<1
37			Kinugawa River	Daidoizumbashi Bridge		Mookashi City	2013/8/16	Sunny	0.5	0.0	>100	19	1	1	<1	<1
38			E g a w a R i v e r	T r i b u t a r y		S h i m o t s u k e s h i C i t y	2013/7/11	Sunny	0.8	0.0	62	21	10	5	<1	<1
							2013/8/16	Sunny	0.9	0.0	>100	22	10	3	<1	<1
							2013/9/20	Sunny	0.4	0.0	61	30	16	3	<1	<1
							2013/8/14	Sunny	0.3	0.0	>100	11	2	1	<1	<1
39			A k a b o r i g a w a R i v e r	N i k k o C i t y H a l l, f r o n t		N i k k o s h i C i t y	2013/8/13	Sunny	0.5	0.0	>100	15	3	1	<1	<1
							2013/7/11	Sunny	0.2	0.0	>100	12	7	4	<1	<1
40			Akaborigawa River	Kiwadajima		Utsunomiyashi City	2013/8/13	Sunny	0.5	0.0	>100	15	3	1	<1	<1
41			T a g a w a R i v e r	O z o b a s h i B r i d g e		U t s u n o m i y a s h i C i t y	2013/7/11	Sunny	0.2	0.0	71	12	7	4	<1	<1
							2013/8/15	Sunny	0.5	0.0	>100	14	<1	1	<1	<1
							2013/9/19	Sunny	0.5	0.0	>100	13	6	2	<1	<1
		2013/8/14			Sunny		0.2	0.0	>100	20	2	1	<1	<1		
42		Kamagawa River	Tsukushibashi Bridge	Utsunomiyashi City	2013/8/14	Sunny	0.2	0.0	>100	20	2	1	<1	<1		
43		Tagawa River	Mejibashi Bridge	Kaminokawamachi Town	2013/8/15	Sunny	0.4	0.0	>100	20	1	1	<1	<1		
44		Tagawa River	Yanabashi Bridge	Oyamashi City	2013/8/16	Sunny	0.7	0.0	>100	23	2	1	<1	<1		
45		K u r o k a w a R i v e r	K a j i m a b a s h i B r i d g e	K a n u m a s h i C i t y	2013/8/12	Sunny	0.3	0.0	>100	9	<1	1	<1	<1		
					2013/8/12	Sunny	0.3	0.0	>100	13	1	1	<1	<1		
46		Kurokawa River	Onaribashi Bridge	Mibumashi Town	2013/8/12	Sunny	0.3	0.0	>100	13	1	1	<1	<1		
47		Oashigawa River	Akaishibashi Bridge	Kanumashi City	2013/8/12	Sunny	0.5	0.0	>100	12	<1	1	<1	<1		
48		Koyabugawa River	Koyabubashi Bridge	Kanumashi City	2013/8/12	Sunny	0.4	0.0	81	16	<1	1	<1	<1		
49		Tamotsubashi Bridge		Tochigishi City	2013/8/12	Sunny	0.4	0.0	>100	10	<1	1	<1	<1		
50		O m o i g a w a R i v e r	O t o m e o h a s h i B r i d g e	O y a m a s h i C i t y	2013/7/12	Sunny	0.2	0.0	64	16	8	2	<1	<1		
					2013/8/12	Cloudy	0.8	0.0	77	14	4	2	<1	<1		
					2013/10/1	Cloudy	0.5	0.0	>100	17	4	1	<1	<1		
					2013/7/16	Sunny	0.7	0.0	65	23	10	4	<1	<1		
51		U z u m a g a w a R i v e r	U z u m a g a w a R i v e r	T o c h i g i s h i C i t y	2013/8/6	Sunny	1.3	0.0	96	24	7	2	<1	<1		
					2013/9/27	Sunny	0.7	0.0	55	26	3	1	<1	<1		
					2013/7/17	Cloudy	0.4	0.0	>100	12	<1	0	<1	<1		
					2013/8/14	Sunny	0.6	0.0	>100	21	<1	0	<1	<1		
52		W a t a r e s e g a w a R i v e r	W a t a r e s e g a w a R i v e r	N i k k o s h i C i t y	2013/10/4	Cloudy	0.5	0.0	>100	2	2	2	<1	<1		
					2013/8/8	Sunny	0.6	0.0	>100	13	2	1	<1	<1		
53		Hajikabashi Bridge		Ashikagashi City	2013/8/7	Sunny	0.7	0.0	66	13	6	4	<1	<1		
54		Nakabashi Bridge		Ashikagashi City	2013/8/7	Sunny	1.0	0.0	43	13	15	7	<1	<1		
55		W a t a r e s e g a w a R i v e r	W a t a r e s e g a w a R i v e r	T a t e b a y a s h i C i t y	2013/7/16	Sunny	0.2	0.0	54	22	8	6	<1	<1		
					2013/8/6	Cloudy	1.1	0.0	54	21	6	3	<1	<1		
	2013/9/30				Cloudy	0.4	0.0	50	19	11	5	<1	<1			

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

\* Radioactive materials concentrations contain some measurement errors but are not noted here.

○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 cesium				
										Cs-134	Cs-137	Total		
N a k a g a w a  R i v e r  S y s t e m	Nakagawa River	Ikuyobashishita	Nasushiobarashi City	2013/8/20	Cloudy	0.4	3	81	Gravel/sand	<10	12	12		
		Komeibashi Bridge		2013/8/20	Cloudy	0.4	4	75	Sand/gravel	28		69	97	
		Takaomatagawa River	Takaomatabashi Bridge	Nasumachi Town	2013/8/20	Cloudy	0.2	3	75	Gravel/sand	21	55	76	
		Yukawa River	Yukawabashi Bridge		2013/8/20	Cloudy	0.3	4	75	Sand/gravel	17	56	73	
	5	Nakagawa River	Kamikuroiso	Nasushiobarashi City/ Nasumachi Town	2013/7/10	Sunny	0.2	5	82	Gravel/sand	<10	28	28	
					2013/8/20	Cloudy	0.4	4	81	Sand/gravel	24	49	73	
					2013/9/18	Sunny	0.6	5	83	Gravel/sand	11	31	42	
	6	Yosagawa River	Yosabashi Bridge	Nasumachi Town	2013/8/19	Sunny	0.4	7	72	Sand/gravel	37	68	105	
	7	Kurokawa River	Shindenbashi Bridge		2013/8/19	Sunny	0.7	3	77	Sand/gravel	30	60	90	
	8	Yosagawa River	Kawadabashi Bridge		2013/7/10	Sunny	0.2	5	83	Gravel/sand	94	180	274	
					2013/8/19	Sunny	0.7	5	76	Sand	20	57	77	
					2013/9/18	Sunny	0.5	5	79	Sand/gravel	24	63	87	
	9	Nakagawa River	Kurobane	Otawarashi City	2013/7/10	Sunny	0.3	8	82	Gravel/sand	15	27	42	
					2013/8/19	Sunny	0.5	3	82	Gravel/sand	12	19	31	
					2013/9/18	Sunny	0.4	5	82	Gravel/sand	<10	16	16	
	10	Matsubagawa River	Tributary		2013/7/10	Sunny	0.3	5	81	Gravel/sand	26	54	80	
					2013/8/19	Sunny	0.3	4	78	Sand/gravel	37	82	119	
					2013/9/18	Sunny	0.6	5	82	Gravel/sand	22	62	84	
	11	Sabigawa River	Udagawabashi Bridge		2013/8/21	Sunny	0.3	2	75	Sand	96	240	336	
	12	Momuragawa River	Momuranakabashi Bridge		2013/8/21	Sunny	0.7	3	82	Gravel/sand	28	59	87	
	13	Hokigawa River	Yunohara	Nasushiobarashi City	2013/7/30	Cloudy	0.5	3	73	Sand/gravel	17	39	56	
			Sekibabashi Bridge		2013/8/21	Sunny	0.6	5	77	Gravel/sand	21	43	64	
			Iwaibashi Bridge		2013/8/21	Cloudy	0.4	4	74	Sand/gravel	20	33	53	
	16		Hokigawabashi Bridge	Otawarashi City	2013/7/10	Sunny	0.2	5	86	Gravel/sand	11	35	46	
2013/8/22					Sunny	0.5	10	80	Sand/gravel	<10	18	18		
2013/9/18					Sunny	0.6	5	79	Gravel/sand	<10	11	11		
17	Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2013/7/11	Sunny	0.2	5	82	Gravel/sand	<10	14	14		
				2013/8/21	Cloudy	0.6	3	81	Gravel/sand	23	34	57		
				2013/9/18	Sunny	0.5	5	79	Sand/gravel	<10	<10	-		
18	Mumogawa River	Koseibashi Bridge		2013/7/10	Sunny	0.2	5	79	Sand/gravel	<10	20	20		
				2013/8/23	Cloudy	0.6	10	84	Sand/gravel	<10	19	19		
				2013/9/19	Sunny	0.4	5	77	Sand/gravel	<10	16	16		
19	Arakawa River	Saikachibashi Bridge	Shioyomachi Town	2013/8/22	Sunny	0.7	10	85	Sand/gravel	56	120	176		
20		Renjobashi Bridge	Sakurashi City	2013/8/22	Sunny	0.7	10	84	Sand/gravel	<10	<10	-		
21		Tanakabashi Bridge	Yaitashi City	2013/8/22	Cloudy	0.9	10	76	Sand/gravel	65	130	195		
22	Uchikawa River	Asahibashi Bridge	Sakurashi City	2013/8/22	Cloudy	0.8	10	76	Sand/gravel	29	71	100		
23	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2013/7/11	Sunny	0.2	3	78	Sand/gravel	<10	30	30		
				2013/8/23	Cloudy	0.5	10	68	Sand	26	59	85		
				2013/9/19	Sunny	0.7	5	76	Sand/gravel	19	39	58		
24	Egawa River	Tributary		2013/7/11	Sunny	0.3	3	81	Gravel/sand	26	58	84		
				2013/8/23	Cloudy	0.7	10	82	Sand/gravel	<10	24	24		
				2013/9/19	Sunny	0.9	5	84	Gravel/sand	<10	20	20		

## ○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 cesium						
										Cs-134	Cs-137	Total				
25	Tonegawa River System	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	2013/8/13	Sunny	0.8	7	84	Gravel/sand	13	20	33			
26			Yunishigawa River		Maesawabashi Bridge	2013/8/13	Sunny	0.5	5	80	Gravel/sand	<10	<10	-		
27			Ojikagawa River		Tributary	2013/8/13	Sunny	0.4	6	82	Gravel/sand	80	160	240		
28			Kinugawa River		Kosagoe	2013/8/13	Sunny	0.5	4	85	Gravel/sand	18	41	59		
29			Itaanagawa River		Tributary	Nikkoshi City	2013/7/12	Cloudy	0.2	3	83	Gravel/sand	29	65	94	
							2013/8/13	Sunny	0.4	3	82	Gravel/sand	31	55	86	
							2013/9/20	Sunny	0.4	5	94	Gravel/sand	16	27	43	
30			Yukawa River			2013/8/14	Sunny	0.3	4	80	Gravel/sand	<10	<10	-		
31			Daiyagawa River		Shinkyo Bridge	2013/8/14	Sunny	0.3	5	86	Gravel/sand	<10	21	21		
32			Shidobuchigawa River		Sujichigaibashi Bridge	2013/8/14	Sunny	0.2	3	83	Gravel/sand	52	130	182		
33			Daiyagawa River		Kaishinbashi Bridge (Harigai)	Nikkoshi City	2013/7/12	Sunny	0.2	3	74	Gravel/sand	<10	<10	-	
							2013/8/15	Sunny	0.6	5	74	Sand/gravel	<10	15	15	
							2013/9/19	Sunny	0.3	5	79	Gravel/sand	<10	11	11	
34			Kinugawa River		Sanuki	Shioyomachi Town	2013/7/12	Cloudy	0.3	3	71	Sand	44	110	154	
							2013/8/15	Sunny	0.5	5	62	Sand/silt	110	200	310	
							2013/10/2	Cloudy	0.4	3	76	Sand/silt	<10	17	17	
35			Nishikinugawa River		Nishikinugawabashi Bridge	Utsunomiyashi City	2013/8/15	Sunny	0.7	5	60	Sand	<10	<10	-	
36			Kinugawa River		Kinugawabashi Bridge (Hoshakuji Temple)	Utsunomiyashi City	2013/8/15	Sunny	0.5	4	84	Sand/gravel	<10	<10	-	
37			Kinugawa River		Daidoizumbashi Bridge	Mookashi City	2013/8/16	Sunny	0.5	3	78	Sand/gravel	<10	10	10	
38			Egawa River		Tributary	Shimotsukeshi City	2013/7/11	Sunny	0.8	5	84	Gravel/sand	11	23	34	
							2013/8/16	Sunny	0.9	3	82	Gravel/sand	<10	17	17	
							2013/9/20	Sunny	0.4	5	31	Silt/sand	150	330	480	
39			Akaborigawa River		Nikko City Hall, front	Nikkoshi City	2013/8/14	Sunny	0.3	6	77	Sand/gravel	130	290	420	
							2013/8/13	Sunny	0.5	7	74	Sand	23	55	78	
40			Kiwadajima													
41			Tagawa River		Ozobashi Bridge	Utsunomiyashi City	2013/7/11	Sunny	0.2	5	78	Gravel/sand	<10	18	18	
							2013/8/15	Sunny	0.5	7	90	Gravel/sand	<10	13	13	
							2013/9/19	Sunny	0.5	5	81	Gravel/sand	11	25	36	
42			Kamagawa River		Tsukushibashi Bridge		2013/8/14	Sunny	0.2	5	85	Gravel/sand	<10	27	27	
43			Tagawa River		Meijibashi Bridge	Kaminokawamachi Town	2013/8/15	Sunny	0.4	3	85	Gravel/sand	10	21	31	
							2013/8/16	Sunny	0.7	8	83	Gravel/sand	13	30	43	
44			Yanabashi Bridge			Oyamashi City										
45	Kurokawa River	Kaijimbashi Bridge	Kanumashi City	2013/8/12	Sunny	0.3	4	82	Gravel/sand	<10	<10	-				
				2013/8/12	Sunny	0.3	3	93	Gravel/sand	<10	<10	-				
				2013/8/12	Sunny	0.5	7	85	Gravel/sand	<10	<10	-				
47	Oashigawa River	Akaishibashi Bridge	Kanumashi City	2013/8/12	Sunny	0.5	7	85	Gravel/sand	<10	<10	-				
				2013/8/12	Sunny	0.4	3	88	Gravel/sand	11	25	36				
				2013/8/12	Sunny	0.4	3	88	Gravel/sand	11	25	36				
49	Koyabugawa River	Tamatobashi Bridge	Tochigishi City	2013/8/12	Sunny	0.4	7	54	Silt/sand	38	81	119				
				2013/7/12	Sunny	0.2	3	85	Gravel/sand	<10	15	15				
				2013/8/12	Cloudy	0.8	5	78	Sand/silt	26	75	101				
50	Omoigawa River	Otomeohashi Bridge	Oyamashi City	2013/10/1	Cloudy	0.5	4	73	Sand/silt	16	37	53				
				2013/7/16	Sunny	0.7	5	24	Silt	140	320	460				
				2013/8/6	Sunny	1.3	10	82	Sand/gravel	13	31	44				
51	Uzumagawa River	Uzumabashi Bridge	Tochigishi City	2013/9/27	Sunny	0.7	5	59	Silt	56	130	186				
				2013/7/17	Cloudy	0.4	3	81	Gravel/sand	11	21	32				
				2013/8/14	Sunny	0.6	5	84	Sand/gravel	18	36	54				
52	Watarasegawa River	Watarasegawa River intake weir at Sori Power Station	Nikkoshi City	2013/10/4	Cloudy	0.5	3	75	Gravel/sand	<10	20	20				
				2013/8/8	Sunny	0.6	10	79	Sand	<10	28	28				
				2013/8/7	Sunny	0.7	10	81	Sand	<10	<10	-				
53	Hajikabashi Bridge		Ashikagashi City													
54	Nakabashi Bridge	Watarasegawa River	Ashikagashi City	2013/8/7	Sunny	0.7	10	81	Sand	<10	<10	-				
				2013/8/7	Sunny	1.0	10	40	Silt	34	78	112				
				2013/7/16	Sunny	0.2	5	80	Gravel/sand	13	17	30				
55	Wataraseohashi Bridge	Tatebayashishi City	Tatebayashishi City	2013/8/7	Sunny	1.0	10	40	Silt	34	78	112				
				2013/7/16	Sunny	0.2	5	80	Gravel/sand	13	17	30				
56	Shinkaibashi Bridge		Tochigishi City	2013/8/6	Cloudy	1.1	10	87	Sand/gravel	<10	16	16				
				2013/9/30	Cloudy	0.4	3	85	Gravel/sand	<10	13	13				

\* Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.  
 \* Radioactive materials concentrations contain some measurement errors but are not noted here.

**○River: 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 ( $\mu$ Sv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose ( $\mu$ Sv/h)		
							Radioactive cesium					Radioactive cesium					
							Cs-134	Cs-137	Total	Cs-134		Cs-137	Total				
1	Nakagawa River	Nakagawa River	Ikuoyobashishita	Nasushiobarashi City	2013/8/20	Cloudy	-	-	-	-	Loamy	720	1,500	2,220	0.12	(Left bank) Unable to collect samples due to private property	
2		Nakagawa River	Komeibashi Bridge	Nasushiobarashi City	2013/8/20	Cloudy	Loamy	2,200	4,700	6,900	0.23	Loamy	710	1,500	2,210	0.27	
3		Takaomatagawa River	Takaomatagawa Bridge	Nasumachi Town	2013/8/20	Cloudy	Loamy	2,200	4,900	7,100	0.20	Loamy	3,700	7,900	11,600	0.21	
4		Yukawa River	Yukawabashi Bridge	Nasumachi Town	2013/8/20	Cloudy	Loamy	1,100	2,400	3,500	0.26	Loamy	1,500	3,200	4,700	0.21	
5		Nakagawa River	Kamikuroiso	Nasushiobarashi City/ Nasumachi Town	2013/7/10	Sunny	Loamy	990	2,200	3,190	0.24	Loamy	3,500	7,200	10,700	0.22	
					2013/8/20	Cloudy	Loamy	1,600	3,600	5,200	0.26	Sandy	2,200	4,800	7,000	0.27	
					2013/9/18	Sunny	Loamy	800	1,800	2,600	0.22	Loamy	2,100	4,700	6,800	0.28	
6		Yosagawa River	Yosabashi Bridge	Nasumachi Town	2013/8/19	Sunny	Loamy	6,300	14,000	20,300	0.42	Loamy	1,400	3,100	4,500	0.29	
7		Kurokawa River	Shindenbashi Bridge	Nasumachi Town	2013/8/19	Sunny	Loamy	4,100	8,800	12,900	0.37	Loamy	3,700	7,900	11,600	0.30	
					2013/7/10	Sunny	Loamy	1,100	2,500	3,600	0.22	Loamy	2,100	4,500	6,600	0.34	
8		Yosagawa River	Kawadabashi Bridge	Nasumachi Town	2013/8/19	Sunny	Loamy	1,100	2,400	3,500	0.23	Loamy	1,200	2,700	3,900	0.34	
					2013/9/18	Sunny	Loamy	920	2,000	2,920	0.25	Loamy	1,800	4,000	5,800	0.36	
9		Nakagawa River	Kurobane	Otawarashi City	2013/7/10	Sunny	Loamy	640	1,400	2,040	0.11	Loamy	980	2,100	3,080	0.11	
					2013/8/19	Sunny	Sandy	800	1,800	2,600	0.15	Loamy	530	1,200	1,730	0.12	
10		Matsubagawa River	Tributary	Otawarashi City	2013/9/18	Sunny	Loamy	420	960	1,380	0.17	Loamy	270	620	890	0.11	
					2013/7/10	Sunny	Loamy	550	1,200	1,750	0.12	Loamy	730	1,600	2,330	0.11	
11		Sabigawa River	Udagawabashi Bridge	Nasushiobarashi City	2013/8/19	Sunny	Loamy	500	1,100	1,600	0.13	Sandy	1,000	2,000	3,000	0.19	
					2013/9/18	Sunny	Loamy	380	810	1,190	0.13	Loamy	230	550	780	0.18	
12		Momuragawa River	Momuranakabashi Bridge	Nasushiobarashi City	2013/8/21	Sunny	Loamy	470	1,000	1,470	0.09	Loamy	140	310	450	0.08	
13		Hokigawa River	Sekibabashi Bridge	Nasushiobarashi City	2013/8/21	Sunny	Loamy	740	1,500	2,240	0.13	Loamy	540	1,200	1,740	0.12	
14					2013/7/30	Cloudy	Loamy	780	1,600	2,380	0.20	Loamy	470	1,100	1,570	0.14	
15		Hokigawa River	Iwabashi Bridge	Otawarashi City	2013/8/21	Cloudy	Loamy	540	1,200	1,740	0.12	Loamy	780	1,700	2,480	0.09	
16					2013/7/10	Sunny	Sandy	650	1,400	2,050	0.11	Loamy	410	870	1,280	0.09	
17		Nakagawa River	Shinnakabashi Bridge	Nakagawamachi Town	2013/8/22	Sunny	Loamy	290	590	880	0.11	Loamy	170	360	530	0.10	
	2013/9/18				Sunny	Loamy	620	1,300	1,920	0.12	Loamy	120	270	390	0.05		
18	Mumogawa River	Koseibashi Bridge	Nakagawamachi Town	2013/7/11	Sunny	Loamy	160	330	490	0.09	Loamy	170	370	540	0.11		
				2013/8/21	Cloudy	Loamy	210	480	690	0.07	Loamy	320	600	920	0.09		
19	Arakawa River	Saikachibashi Bridge	Shioyamachi Town	2013/9/18	Sunny	Loamy	120	290	410	0.08	Loamy	120	220	340	0.09		
				2013/7/10	Sunny	Sandy	200	390	590	0.08	Loamy	210	430	640	0.11		
20	Renjobashi Bridge	Sakurashi City	2013/8/23	Cloudy	Loamy	120	280	400	0.08	Loamy	120	260	380	0.09			
21	Uchikawa River	Tanabashi Bridge	Sakurashi City	2013/9/19	Sunny	Loamy	100	220	320	0.10	Loamy	91	210	301	0.09		
22	Asahibashi Bridge	Sakurashi City	2013/8/22	Sunny	Loamy	270	590	860	0.11	Loamy	620	1,300	1,920	0.13			
23	Arakawa River	Mukadabashi Bridge	Nasukarasuyamashi City	2013/8/22	Cloudy	Loamy	210	490	700	0.08	Loamy	150	340	490	0.09		
				2013/8/22	Cloudy	Loamy	380	890	1,270	0.11	Loamy	400	920	1,320	0.12		
24	Egawa River	Tributary	Nasukarasuyamashi City	2013/8/22	Cloudy	Loamy	120	290	410	0.07	Loamy	150	350	480	0.08		
				2013/7/11	Sunny	Loamy	140	350	490	0.06	Loamy	170	350	520	0.08		
				2013/8/23	Cloudy	Loamy	93	230	323	0.09	Loamy	160	370	530	0.07		
				2013/9/19	Sunny	Loamy	140	330	470	0.08	Loamy	95	230	325	0.07		
				2013/7/11	Sunny	Loamy	92	210	302	0.09	Loamy	89	230	319	0.07		
				2013/8/23	Cloudy	Loamy	90	190	280	0.07	Loamy	160	340	500	0.07		
				2013/9/19	Sunny	Loamy	75	160	235	0.07	Loamy	84	190	274	0.07		

## 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 [Bq/kg (dry)]			Air dose (μSv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)		
							Radioactive cesium					Radioactive cesium	Radioactive cesium				
							Cs-134	Cs-137	Total				Cs-134			Cs-137	Total
25	T o n e g a w a  R i v e r  S y s t e m  R i v e r  S y s t e m  R i v e r	K i n u g a w a  R i v e r  S y s t e m  R i v e r	Kinugawa River	Kawaji Daiichi Power Station, front	Nikkoshi City	Loamy	730	1,600	2,330	0.15	Loamy	1,200	2,500	3,700	0.16		
26			Yumishigawa River	Maesawabashi Bridge		Loamy	55	110	165	0.09	Loamy	13	21	34	0.05		
27			Ojikagawa River	Tributary		Sandy	43	96	139	0.19	Sandy	730	1,600	2,330	0.20		
28			Kinugawa River	Kosagoe		Loamy	1,200	2,600	3,800	0.24	Loamy	780	1,700	2,480	0.19		
29			Itaangawa River	Tributary		Loamy	850	1,900	2,750	0.21	Loamy	1,200	2,500	3,700	0.21		
						Loamy	1,300	2,800	4,100	0.25	Loamy	680	1,500	2,180	0.21		
						Loamy	810	1,800	2,610	0.31	Loamy	240	550	790	0.22		
						Loamy	250	470	720	0.09	-	-	-	-	-	(Right bank) Unable to collect samples due to private property	
30			Yukawa River	Shinkyo Bridge		Loamy	980	2,100	3,080	0.15	Loamy	1,100	2,500	3,600	0.14		
31			Daiyagawa River	Suiichigabashi Bridge		Loamy	1,100	2,400	3,500	0.17	Loamy	1,600	3,400	5,000	0.20		
32			Shidobuchigawa River	Suiichigabashi Bridge		Loamy	590	1,300	1,890	0.17	Sandy	18	29	47	0.07		
33			Daiyagawa River	Kaishinbashi Bridge (Harigai)		Loamy	810	1,800	2,610	0.21	Sandy	<10	20	29	0.08		
						Loamy	610	1,300	1,910	0.15	Loamy	540	1,200	1,740	0.05		
						Loamy	670	1,400	2,070	0.16	Loamy	1,300	2,600	3,900	0.19		
						Loamy	530	1,200	1,730	0.16	Loamy	1,300	2,700	4,000	0.19		
34			Kinugawa River	Sanuki		Loamy	500	1,200	1,700	0.17	Loamy	1,100	2,500	3,600	0.16		
						Loamy	530	1,200	1,730	0.16	Loamy	1,300	2,700	4,000	0.19		
						Loamy	73	140	213	0.07	Loamy	140	280	420	0.09		
						Loamy	15	40	55	0.07	Loamy	82	200	282	0.08		
35			Nishikinugawa River	Nishikinugawabashi Bridge		Utsunomiya City	Loamy	230	520	750	0.09	Loamy	<10	17	17	0.07	
36			Kinugawa River	Kinugawabashi Bridge (Hoshakuji Temple)		Mookashi City	Loamy	110	210	320	0.08	Loamy	320	670	990	0.08	
37			Kinugawa River	Daidozumbashi Bridge		Mookashi City	Loamy	360	820	1,180	0.08	Loamy	130	310	440	0.09	
38			Egawa River	Tributary		Shimotsukeshi City	Loamy	40	94	134	0.09	Loamy	100	210	310	0.07	
39			Akaborigawa River	Nikko City Hall, front		Nikkoshi City	Loamy	-	-	-	-	Loamy	650	1,300	1,950	0.10	
40			Akaborigawa River	Kiwadajima		Nikkoshi City	Loamy	360	770	1,130	0.12	Loamy	590	1,300	1,890	0.11	
41			Tagawa River	Ozobashi Bridge		Loamy	160	380	540	0.06	Loamy	600	1,200	1,800	0.06		
						Loamy	220	450	670	0.06	Loamy	480	980	1,460	0.06		
						Loamy	400	930	1,330	0.06	Loamy	67	150	217	0.09		
						Loamy	110	240	350	0.08	Loamy	560	1,200	1,760	0.08		
42			Kamagawa River	Tsukushibashi Bridge		Kaminokawamachi Town	Loamy	94	230	324	0.06	Loamy	180	370	550	0.07	
43			Tagawa River	Mejibashi Bridge		Kaminokawamachi Town	Loamy	60	170	230	0.06	Loamy	71	160	231	0.05	
44			Tagawa River	Yanabashi Bridge		Oyamashi City	Loamy	190	420	610	0.08	Loamy	110	220	330	0.07	
45	Tagawa River	Mejibashi Bridge	Oyamashi City	Loamy	180	400	580	0.07	Loamy	190	390	580	0.09				
46	Kurokawa River	Akaishibashi Bridge	Kanumashi City	Loamy	230	540	770	0.10	Sandy	130	270	400	0.08				
47	Oshigawa River	Akaishibashi Bridge	Kanumashi City	Loamy	190	450	640	0.09	Loamy	410	940	1,350	0.08				
48	Kovabugawa River	Kovabubashi Bridge	Tochigishi City	Loamy	130	260	390	0.08	Loamy	130	290	420	0.08				
49	Tamotsubashi Bridge	Tochigishi City	Loamy	170	340	510	0.10	Loamy	310	610	920	0.08					
50	Omoigawa River	Otomeohashi Bridge	Loamy	160	350	510	0.11	Loamy	140	320	460	0.09					
			Loamy	170	380	550	0.12	Loamy	170	330	500	0.09					
			Loamy	140	350	490	0.09	Loamy	140	280	420	0.07					
			Loamy	100	280	380	0.09	Loamy	130	250	380	0.06					
51	Uzumagawa River	Uzumabashi Bridge	Tochigishi City	Loamy	120	270	390	0.06	Loamy	85	210	295	0.07				
52	Uzumagawa River	Uzumabashi Bridge	Tochigishi City	Sandy	32	73	105	0.18	Sandy	57	130	187	0.18				
53	Watarasegawa River	Watarasegawa River intake weir at Sori Power Station	Loamy	180	380	560	0.19	Sandy	31	74	105	0.18					
			Loamy	150	380	530	0.18	Sandy	11	24	35	0.17					
			Loamy	89	230	319	0.07	Loamy	200	430	630	0.09					
			Loamy	64	140	201	0.06	Loamy	49	100	149	0.07					
54	Haijibashi Bridge	Ashikagashi City	Loamy	240	480	720	0.08	Loamy	150	330	480	0.07					
55	Nakabashi Bridge	Tateyashishi City	Loamy	100	230	330	0.07	Loamy	210	430	640	0.10					
56	Shinkaishashi Bridge	Tochigishi City	Loamy	92	190	282	0.08	Loamy	150	300	450	0.08					
			Loamy	82	170	252	0.08	Loamy	120	310	430	0.09					

\* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

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

\* Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

\* Radioactive materials concentrations contain some measurement errors but are not noted here.



## OLake and Headwater: Water Quality Monitoring Results

No.	Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks		
	Point							Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium				
													Cs-134	Cs-137			
1	Nakagawa River Water Body	Miyama Dam Reservoir	Center	Nasushiobarashi City	Surface layer	2013/7/30	Sunny	29.1	0.5	4.7	9	<1	1	<1	<1		
		Shiobara Dam Reservoir	Center		Lower layer	2013/7/30	Cloudy	20.7	0.5	4.3	28.1	9	8	3	<1	<1	
2	Kawaj Dam Reservoir	Center	Nikkoshi City	Surface layer	2013/7/31	Sunny	23.7	0.5	1.5	10	6	10	<1	<1	<1		
		Center		Lower layer	2013/7/31	Sunny	54.3	0.5	2.5	19.7	22	14	9	<1	<1		
3	Ikari Dam Reservoir	Center	Nikkoshi City	Surface layer	2013/8/1	Cloudy	61.9	0.5	2.5	11	<1	1	<1	<1	<1		
		Center		Lower layer	2013/8/1	Cloudy	11.9	0.5	3.3	53.3	7	1	2	<1	<1		
4	Yunoko Lake	Center	Nikkoshi City	Surface layer	2013/8/9	Sunny	170.0	0.5	10.5	11	<1	0	<1	<1	<1		
		Center		Lower layer	2013/8/9	Sunny	170.0	0.5	10.5	11	<1	0	<1	<1	<1		
5	Chuzenjiko Lake	Center	Nikkoshi City	Surface layer	2013/8/6	Sunny	2.8	0.5	0.6	20	15	14	<1	<1	<1		
		Center		Lower layer	2013/8/6	Sunny	2.8	0.5	0.6	169.0	11	<1	1	<1	<1		
6	Watarasegawa River Water Body	Watarase Reservoir	Center	Tochigishi City	Surface layer	2013/8/6	Sunny	2.8	0.5	0.6	20	15	14	<1	<1	<1	
		Watarase Reservoir	Center		Lower layer	2013/8/6	Sunny	2.8	0.5	0.6	1.8	20	15	14	<1	<1	<1

- Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.
- Radioactive materials concentrations contain some measurement errors but are not noted here.

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

No.	Sampling point				Sampling date	Weather	Full depth (m)	Sediment					Surrounding environment (lake shore)					Remarks	
	Point							General items			Concentration of radioactive material [Bq/kg (dried mud)]		Soil						
								Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]				Air dose (μSv/h)
											Cs-134	Cs-137	Total		Cs-134	Cs-137	Total		
1	Nakagawa River System	Miyama Dam Reservoir	Center	Nasushiobarashi City	2013/7/30	Sunny	29.1	10	36	Silt	31	75	106	Loamy	350	850	1,200	0.12	
		Shiobara Dam Reservoir	Center		2013/7/30	Cloudy	20.7	10	37	Silt	350	730	1,080	Loamy	1,500	3,100	4,600	0.31	
2	Kinugawa River System	Kawaj Dam Reservoir	Center	Nikkoshi City	2013/7/31	Sunny	23.7	10	40	Silt	430	890	1,320	Loamy	770	1,700	2,470	0.23	
		Ikari Dam Reservoir	Center		2013/7/31	Sunny	54.3	10	33	Silt	1,600	3,500	5,100	Loamy	1,200	2,700	3,900	0.20	
3	Watarasegawa River Water Body	Kawamata Dam Reservoir	Center	Tochigishi City	2013/8/1	Cloudy	61.9	10	32	Silt	130	220	350	Loamy	200	440	640	0.06	
		Yunoko Lake	Center		2013/8/1	Cloudy	11.9	10	23	Silt	68	180	248	Loamy	50	110	160	0.10	
4	Chuzenjiko Lake	Center	Nikkoshi City	Surface layer	2013/8/9	Sunny	170.0	10	17	Silt	80	190	270	Loamy	300	710	1,010	0.13	
		Center		Lower layer	2013/8/9	Sunny	170.0	10	17	Silt	80	190	270	Loamy	300	710	1,010	0.13	
5	Watarasegawa River Water Body	Watarase Reservoir	Center	Tochigishi City	2013/8/6	Sunny	2.8	10	48	Silt/clay	27	86	113	Loamy	310	640	950	0.07	
		Watarase Reservoir	Center		2013/8/6	Sunny	2.8	10	48	Silt/clay	27	86	113	Loamy	310	640	950	0.07	

- Samples for surrounding environment (lake shore) were generally collected from 5 points in 3m square on the lake shore, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.
- Sampling points are listed from north to south.
- Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.
- Radioactive materials concentrations contain some measurement errors but are not noted here.

