

## FY2011 Ibaraki Prefecture Survey Results

### [Survey Dates]

Survey	Rivers	Lakes	Sea Areas	Bathing Areas
1 <sup>st</sup> Time	Aug. 30-Oct. 8, 2011	Sept. 12-Oct. 5, 2011	Oct. 3-6, 2011	Sept. 8-Oct. 4, 2011
2 <sup>nd</sup> Time	Feb. 17-25, 2012	Feb. 17-24, 2012	Feb. 20-21, 2012	–

### [Survey Results]

#### 1<sup>st</sup> Time:

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

- Both radioactive iodine (I-131) and radioactive cesium (Cs-134, Cs-137) were not detectable at any of the locations tested.

#### Sediment

- Radioactive iodine (I-131) was not detectable at any of the locations tested (Lower detection limit: 30Bq/kg (dried mud))
- Radioactive cesium

#### Rivers

Cs-134: ND-2,600Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: ND-3,000Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

#### Lakes and headwaters

Cs-134: ND-850Bq/kg (dried mud) (Lower detection limit: 20Bq/kg (dried mud))

Cs-137: 37-990Bq/kg (dried mud)

#### Coasts and bathing areas

Cs-134: ND-76Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: ND-97Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

#### Surrounding Environment

- Radioactive iodine (I-131) was not detectable at any of the locations tested (Lower detection limit: 30Bq/kg (dry))
- Radioactive cesium

#### Rivers

Cs-134: 53-4,800Bq/kg (dry)

Cs-137: 61-5,200Bq/kg (dry)

#### Lakes and headwaters

Cs-134: 22-1,400Bq/kg (dry)

Cs-137: 22-1,600Bq/kg (dry)

#### Coasts and bathing areas

Cs-134: ND-660Bq/kg (dry) (Lower detection limit: 10Bq/kg (dry))

Cs-137: 12-820Bq/kg (dry)

- Spatial dose

Rivers 0.04-0.48μSv/h

Lakes and headwaters 0.07-0.22μSv/h

Coasts and bathing areas 0.06-0.32μSv/h

#### 2<sup>nd</sup> Time:

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

- Both radioactive iodine (I-131) and radioactive cesium (Cs-134, Cs-137) were not detectable at any of the locations tested.

#### Sediment

- Radioactive iodine (I-131) was not detectable at any of the locations tested. (Lower detection limit: 30Bq/kg (dried mud))

- Radioactive cesium

##### Rivers

Cs-134: ND-2,400Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: ND-3,400Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

##### Lakes and headwaters

Cs-134: 52-530Bq/kg (dried mud)

Cs-137: 91-770Bq/kg (dried mud)

##### Coasts

Cs-134: ND-100Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

Cs-137: 11-130Bq/kg (dried mud) (Lower detection limit: 10Bq/kg (dried mud))

#### Surrounding Environment

- Radioactive iodine (I-131) was not detectable at any of the locations tested. (Lower detection limit: 30Bq/kg (dry))

- Radioactive cesium

##### Rivers

Cs-134: 32-4,000Bq/kg (dry)

Cs-137: 56-5,400Bq/kg (dry)

##### Lakes and headwaters

Cs-134: 21-360Bq/ kg (dry)

Cs-137: 37-480Bq/ kg (dry)

- Spatial Dose

Rivers 0.08-0.38 $\mu$ Sv/h

Lakes and headwaters 0.06-0.19 $\mu$ Sv/h

# River -1: 1st Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Remarks	
No.	Water body							General items						Radioactive material concentrations					
		Point	Municipality	Water temperature	Sampling depth m	Color	Odor	Transparency cm	Electrical conductivity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium Cs-134	Cs-137					
1	Taga River System	Satonogawa River	Yamagoyabashi Bridge	Kitabarakishi City	2011/9/8	Sunny	23.4	0.35	16.6	0.0	Colorless transparent	None	100 or more	13.1	3	1.2	<1	<1	<1
2		Satonogawa River	Murayamabashi Bridge	Kitabarakishi City	2011/9/8	Sunny	31.2	0.55	22.1	0.0	Colorless transparent	None	100 or more	19.8	4	1.9	<1	<1	<1
3		Edokamigawa River	Daiichikamiokabashi Bridge	Kitabarakishi City	2011/9/8	Sunny	30.0	0.25	24.8	0.0	Colorless transparent	None	78	175.9	16	8.1	<1	<1	<1
4		Hanazonogawa River	Kurabeishi	Kitabarakishi City	2011/9/9	Sunny	21.6	0.35	15.8	0.0	Colorless transparent	None	100 or more	5.5	3	1.5	<1	<1	<1
5		Hanazonogawa River	Isonarebashi Bridge	Kitabarakishi City	2011/9/9	Cloudy, then sunny	27.2	0.45	20.0	0.0	Colorless transparent	None	100 or more	20.2	3	2.3	<1	<1	<1
6		Okitagawa River	Sakaebashi Bridge	Takahagishi City	2011/9/9	Cloudy	29.9	0.60	16.7	0.0	Colorless transparent	None	100 or more	6.2	6	2.2	<1	<1	<1
7		Okitagawa River	Sakaibashi Bridge	Kitabarakishi City	2011/9/9	Sunny	28.9	0.50	20.2	0.0	Colorless transparent	None	100 or more	10.4	9	4.1	<1	<1	<1
8		Shiotagawa River	Shinbashi Bridge	Kitabarakishi City	2011/9/10	Clear	27.1	0.30	21.3	0.0	Colorless transparent	None	100 or more	38.4	5	3.1	<1	<1	<1
9		Sekinemaekawa River	Takinowakiseki Weir	Takahagishi City	2011/9/10	Clear	27.0	0.20	20.0	0.0	Colorless transparent	None	61	7.7	12	11	<1	<1	<1
10		Sekinegawa River	Hanedabashi Bridge	Takahagishi City	2011/9/10	Clear	30.5	0.40	20.2	0.0	Colorless transparent	None	100 or more	22.2	2	1.6	<1	<1	<1
11		Hananukigawa River	Horizonobashi Bridge	Takahagishi City	2011/9/10	Sunny	26.0	0.30	16.3	0.0	Colorless transparent	None	83	11.9	8	5.9	<1	<1	<1
12		Hananukigawa River	Shinhananukubashi Bridge	Takahagishi City	2011/9/10	Sunny	30.8	0.40	22.0	0.0	Colorless transparent	None	100 or more	14.1	4	2.0	<1	<1	<1
13		Juogawa River	Kawajiriseki Weir	Hitachishi City	2011/9/10	Sunny	31.2	0.40	21.9	0.0	Colorless transparent	None	100 or more	15.3	4	2.7	<1	<1	<1
14		Miyatagawa River	Miyatagawabashi Bridge	Hitachishi City	2011/9/11	Sunny	25.2	0.29	22.8	0.0	Colorless transparent	None	89	183.9	5	3.2	<1	<1	<1
15	Yamizogawa River	Mannenbashi Bridge	Daigomachi Town	2011/9/11	Sunny	29.8	0.25	23.1	0.0	Yellow green	None	100 or more	8.8	5	2.6	<1	<1	<1	
16	Oshigawa River	Oshigawabashi Bridge	Daigomachi Town	2011/9/11	Sunny	31.3	0.45	21.4	0.0	Dark green	None	100 or more	10.3	3	2.3	<1	<1	<1	
17	Takikawa River	Koisobashi Bridge	Daigomachi Town	2011/9/11	Sunny	32.6	0.45	27.7	0.0	Dark green	None	100 or more	20.3	1	1.3	<1	<1	<1	
18	Kujigawa River	Yamagata	Hitachiomiyashi City	2011/9/11	Sunny	26.9	0.65	25.5	0.0	Dark green	None	100 or more	11.2	5	3.1	<1	<1	<1	
19	Asakawa River	Asakawabashi Bridge	Hitachiomiyashi City	2011/9/10	Sunny	28.6	0.37	24.3	0.0	Colorless transparent	None	100	42.2	9	8.5	<1	<1	<1	
20	Tamagawa River	Shimotamagawabashi Bridge	Hitachiomiyashi City	2011/9/8	Sunny	27.7	0.66	25.9	0.0	Greenish brown	None	90	21.4	8	4.6	<1	<1	<1	
21	Yamadagawa River	Azumabashi Bridge	Hitachiomiyashi City	2011/9/10	Sunny	32.7	0.87	24.6	0.0	Greenish brown	None	82	22.4	9	8.1	<1	<1	<1	
22	Satogawa River	Shinochibashi Bridge	Hitachiomiyashi City	2011/9/10	Clear	31.8	1.00	24.4	0.0	Colorless transparent	None	100 or more	13.6	13	8.0	<1	<1	<1	
23	Kujigawa River	Sakakibashi Bridge	Hitachiomiyashi City	2011/9/10	Sunny	31.8	0.80	25.3	0.0	Dark green	None	87.5	13.7	8	6.3	<1	<1	<1	
24	Momiyagawa River	Shimizuabashi Bridge	Hitachishi City	2011/9/11	Sunny	25.9	1.89	28.2	0.0	Yellow green	None	24	1281.0	20	17	<1	<1	<1	
25	Shinkawa River System	Shinkawa River	Oebashi Bridge	Itokaimura Village	2011/9/11	Sunny	27.0	0.30	22.9	0.0	Colorless transparent	None	82	24.6	9	6.8	<1	<1	<1
26	Ogawa River	Ogawabashi Bridge	Hitachiomiyashi City	2011/9/8	Sunny	23.0	0.38	21.2	0.0	Colorless transparent	None	100 or more	13.9	2	1.2	<1	<1	<1	
27	Nakagawa River System	Nakagawa River	Noguchi	Shimotsurugawa City	2011/9/8	Sunny	29.1	0.71	21.1	0.0	Colorless transparent	None	100 or more	12.5	6	4.3	<1	<1	<1
28		Shiokogawa River	Isozakibashi Bridge	Shimotsurugawa City	2011/9/8	Sunny	29.4	0.28	20.4	0.0	Colorless transparent	None	100 or more	14.6	5	2.8	<1	<1	<1
29		Fujigawa River	Kamiaibashi Bridge	Mitoshi City	2011/9/12	Sunny	31.6	1.40	22.9	0.0	Colorless transparent	None	100 or more	15.1	5	3.5	<1	<1	<1
30		Nakagawa River	Shimokuni	Mitoshi City	2011/9/12	Sunny	32.7	1.30	24.9	0.0	Dark green	None	88	15.2	9	6.6	<1	<1	<1
31		Hayatogawa River	Mutumabashi Bridge	Hitachiomiyashi City	2011/9/11	Sunny	28.6	0.25	24.9	0.0	Colorless transparent	None	88	24.4	11	8.6	<1	<1	<1
32		Hayatogawa River	Water purification plant, down	Hitachinaka City	2011/9/11	Sunny	30.2	0.30	25.5	0.0	Colorless transparent	None	100 or more	34.8	9	5.5	<1	<1	<1
33		Sakuragawa River	Ekinankohashi Bridge	Mitoshi City	2011/9/12	Sunny	33.2	0.70	27.3	0.0	Dark green	None	24	23.3	37	25	<1	<1	<1
34		Nakagawa River	Katsutabashi Bridge	Shimotsurugawa City	2011/9/11	Sunny	29.0	6.05	24.9	0.0	Dark green	None	93	16.4	7	8.0	<1	<1	<1
35		Nakamarugawa River	Yanagisawabashi Bridge	Hitachinaka City	2011/10/3	Sunny	21.2	0.20	18.7	0.0	Dark green	None	53	82.3	13	11	<1	<1	<1
36		Hinumamakawa River	Nagaokabashi Bridge	Ibarakimachi Town	2011/10/4	Clear	23.2	0.10	17.0	0.0	Dark green	None	100 or more	21.2	5	5.2	<1	<1	<1
37		Hinumagawa River	Takahashi	Ibarakimachi Town	2011/10/4	Clear	18.7	0.20	15.1	0.0	Dark green	None	100 or more	21.9	5	3.9	<1	<1	<1
38		Kanseigawa River	Kanseibashi Bridge	Ibarakimachi Town	2011/10/4	Sunny	16.2	0.60	14.3	0.0	Dark green	None	100 or more	25.5	6	3.4	<1	<1	<1
39		Daiyagawa River	Oyabashi Bridge	Ibarakimachi Town	2011/10/4	Sunny	12.1	0.60	14.1	0.0	Colorless transparent	None	98	4.9	9	6.4	<1	<1	<1
40		Ishikawagawa River	Inobashi Bridge	Mitoshi City	2011/9/12	Sunny	28.1	0.60	25.7	0.0	Dark green	None	23	27.8	42	20	<1	<1	<1
41	Hinumagawa River	Hinumabashi Bridge	Shimotsurugawa City	2011/10/3	Sunny	21.4	0.60	19.1	0.0	Dark green	None	100 or more	14.0	6	4.8	<1	<1	<1	
42	Hokotagawa River	Asahibashi Bridge	Hokotashi City	2011/9/10	Sunny	31.1	1.00	23.0	0.0	Greenish brown	Faint sewage	93	36.4	7	6.3	<1	<1	<1	
43	Tomogawa River	Shuntomogawabashi Bridge	Hokotashi City	2011/9/10	Clear	29.8	0.80	22.0	0.0	Greenish brown	Faint earth	46	27.7	18	11	<1	<1	<1	
44	Taiyogawa River	Tazukabashi Bridge	Hokotashi City	2011/9/10	Sunny	31.4	0.23	20.7	0.0	Colorless transparent	None	100 or more	26.7	12	6.4	<1	<1	<1	
45	Takedagawa River	Uchijukuohashi Bridge	Namegatashi City	2011/10/3	Sunny	21.8	0.40	16.0	0.0	Greenish brown	Faint sewage	80	30.9	8	6.6	<1	<1	<1	
46	Yamadagawa River	Nioroshibashi Bridge	Namegatashi City	2011/10/3	Sunny	22.0	0.55	17.3	0.0	Greenish brown	Faint earth	16	30.7	43	37	<1	<1	<1	
47	Kurakawa River	Kurakawabashi Bridge	Namegatashi City	2011/10/3	Sunny	22.1	0.88	17.7	0.0	Greenish brown	Faint sewage	50	31.6	13	11	<1	<1	<1	
48	Gantsugawa River	JA Yokohashi	Namegatashi City	2011/10/3	Sunny	23.3	0.19	20.8	0.0	Colorless transparent	Faint sewage	79	29.3	7	6.5	<1	<1	<1	
49	Nagaregawa River	Suhoibashi Bridge	Kashimashi City	2011/10/4	Sunny	22.0	0.20	18.6	0.0	Colorless transparent	Sewage	34	43.6	18	22	<1	<1	<1	

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

## River -2: 1st Water Quality Monitoring Results

No.	Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Remarks	
	Water body	Point	Municipality	General items						Radioactive material concentrations										
				Water temperature					Sampling depth m	Color	Odor	Transparency cm	Electrical conductivity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium Cs-134	Cs-137		
50	Tonegawa River System	Sonobegawa River	Sonobeshinbashi Bridge	Omitamashi City	2011/9/10	Clear	28.5	1.75	22.2	0.0	Dark grayish yellow green	None	55	26.7	5	7.9	<1	<1	<1	
51		Sannogawa River	Tokorobashi Bridge	Ishikashi City	2011/9/9	Sunny	31.6	0.58	25.9	0.0	Dark grayish yellow green	Faint sewage	94	62.7	3	3.0	<1	<1	<1	
52		Koiesegawa River	Heiwabashi Bridge	Ishikashi City	2011/9/9	Sunny	30.8	0.95	23.7	0.0	Dark grayish yellow green	Faint sewage	44	21.1	7	6.7	<1	<1	<1	
53		Kajinashigawa River	Kamishukubashi Bridge	Namegataashi City	2011/9/10	Clear	29.9	0.58	22.5	0.0	Dark grayish yellow red	None	70	38.8	8	5.2	<1	<1	<1	
54		Hishikigawa River	Hishikibashi Bridge	Kasumigaura City	2011/9/10	Sunny	30.6	0.32	25.1	0.0	Colorless transparent	None	100 or	29.2	10	5.8	<1	<1	<1	
55		Ichinosegawa River	Kawanakabashi Bridge	Kasumigaura City	2011/9/10	Sunny	31.3	1.52	26.0	0.0	Greenish brown	Faint mold	67	27.1	7	5.5	<1	<1	<1	
56		Sakaigawa River	Sakabashi Bridge/National Route 354	Tsuchiura City	2011/9/10	Sunny	30.5	0.68	29.0	0.0	Greenish brown	Faint sewage	40	42.2	19	19	<1	<1	<1	
57		Shinkawa River	Shintenbashi Bridge	Tsuchiura City	2011/10/3	Sunny	18.4	1.80	20.2	0.0	Greenish brown	Faint mold	49.5	27.1	10	11	<1	<1	<1	
58		Sakuragawa River	Eiribashi Bridge	Tsuchiura City	2011/9/9	Sunny	26.8	0.95	24.0	0.0	Yellow green	Faint mold	44	23.1	17	14	<1	<1	<1	
59		Bizengawa River	Bizengawabashi Bridge	Tsuchiura City	2011/10/3	Clear	20.4	0.70	19.3	0.0	Grayish yellow green	Faint sewage	42	29.1	13	16	<1	<1	<1	
60		Hanamurogawa River	Shinwabashi Bridge	Tsuchiura City	2011/10/3	Sunny	21.8	0.30	20.6	0.0	Grayish yellow green	Faint sewage	87	32.2	5	5.7	<1	<1	<1	
61		Seimeigawa River	Katsubashi Bridge	Amimachi Town	2011/10/3	Clear	22.6	0.50	22.0	0.0	Greenish brown	Mold	49	27.7	12	8.9	<1	<1	<1	
62		Onogawa River	Okuharaohashi Bridge	Ishikashi City	2011/9/12	Sunny	28.9	1.35	24.6	0.0	Greenish brown	Earth	11	5.4	44	32	<1	<1	<1	
63		Shintonegawa River	Shintonebashi Bridge	Inashikishi City	2011/9/12	Cloudy	31.4	3.35	30.6	0.0	Yellow green	Seaweed	12	5.0	12	16	<1	<1	<1	
64		Hitachitonegawa River	Yorokoshigawa River	Horinouchibashi Bridge	Itakoshi City	2011/10/4	Clear	19.4	0.40	16.0	0.0	Yellow green	None	27	31.2	29	36	<1	<1	<1
65			Maekawa River	Ayamebashi Bridge	Itakoshi City	2011/10/4	Sunny	20.0	2.10	20.0	0.0	Dark green	None	33	28.8	18	13	<1	<1	<1
66			Kinugawa River	Kawashimabashi Bridge	Chikuseishi City	2011/10/8	Sunny	20.8	0.60	17.2	0.0	Grayish green	None	100 or	12.8	12	6.2	<1	<1	<1
67		Kinugawa River	Kinugawa River	Takshitabashi Bridge	Moriyoshi City	2011/10/7	Clear	22.6	0.30	19.1	0.0	Greenish brown	None	23	13.7	36	23	<1	<1	<1
68			Tagawa River	Tagawabashi Bridge	Chikuseishi City	2011/10/8	Sunny	20.0	0.89	17.2	0.0	Colorless transparent	None	100 or	20.6	7	3.3	<1	<1	<1
69		Kokaigawa River	Hachikenborigawa River	Ishiarabashi Bridge	Jososhi City	2011/10/7	Sunny	21.2	0.80	19.0	0.0	Dark grayish yellow red	None	21	22.3	44	25	<1	<1	<1
70			Gogyogawa River	Shimookahashi Bridge	Chikuseishi City	2011/8/30	Clear	26.6	0.96	23.5	0.0	Dark grayish yellow green	None	100 or	19.5	3	1.9	<1	<1	<1
71			Daiyagawa River	Nishihokaminohashi Bridge	Chikuseishi City	2011/8/30	Sunny	29.8	1.06	24.6	0.0	Dark grayish yellow green	None	78.5	19.4	11	3.7	<1	<1	<1
72			Kokaigawa River	Kurokobashi Bridge	Chikuseishi City	2011/8/30	Sunny	30.5	1.85	26.1	0.0	Dark grayish yellow green	Faint mold	86	18.4	7	3.3	<1	<1	<1
73			Itokurigawa River	Jukyubashi Bridge	Shimosumashi City	2011/8/30	Sunny	30.0	0.98	26.8	0.0	Greenish brown	None	35	27.5	22	13	<1	<1	<1
74			Nakadorigawa River	Itamishinbashi Bridge	Tsukubashi City	2011/10/6	Sunny	22.8	1.75	20.0	0.0	Dark grayish yellow red	None	22	15.6	25	28	<1	<1	<1
75			Kokaigawa River	Fumimakibashi Bridge	Ishikashi City	2011/10/6	Sunny	23.6	0.60	19.0	0.0	Brown	None	17.5	18.8	120	57	<1	<1	<1
76			Yatagawa River	Maruyamabashi Bridge	Tsukubashi City	2011/10/6	Sunny	22.0	3.30	19.4	0.0	Dark grayish yellow red	None	24	17.9	23	19	<1	<1	<1
77			Nishiyatagawa River	Sakamatsuhashi Bridge	Tsukubashi City	2011/10/6	Cloudy	18.8	1.30	19.2	0.0	Dark grayish yellow red	None	17	19.6	96	39	<1	<1	<1
78			Inarigawa River	Ogukibashi Bridge	Tsukubashi City	2011/10/6	Sunny	22.8	1.18	19.6	0.0	Greenish brown	None	40	16.5	16	12	<1	<1	<1
79		Yatagawa River	Ushikunuma Lake exit	Ryugasaki City	2011/10/6	Sunny	23.6	2.25	20.0	0.0	Greenish brown	None	17	18.8	28	24	<1	<1	<1	
80		Tonegawa River	Mukaiborigawa River	Isagoibashi Bridge	Kogashi City	2011/9/11	Sunny	29.0	0.40	27.2	0.0	Dark grayish yellow red	None	31	33.9	14	22	<1	<1	<1
81			Isokawa River	Mizuumbashi Bridge	Kogashi City	2011/10/6	Cloudy	20.3	1.05	20.1	0.0	Dark grayish yellow green	Faint sewage	88	26.4	6	4.0	<1	<1	<1
82			Shimoonosuiro Channel	Kusakabebashi Bridge	Kogashi City	2011/9/11	Sunny	31.2	0.50	27.6	0.0	Colorless transparent	None	100 or	38.7	5	3.0	<1	<1	<1
83	Miyatogawa River		Miyatogawabashi Bridge	Sakamachi Town	2011/10/6	Sunny	23.8	1.53	18.6	0.0	Dark grayish yellow red	None	28	18.0	33	16	<1	<1	<1	
84	Okawa River		Owadabashi Bridge	Kogashi City	2011/10/8	Sunny	17.8	0.08	19.2	0.0	Colorless transparent	Faint seaweed	90	37.2	10	10	<1	<1	<1	
85	Kuguidogawa River		Katashibebashi Bridge	Bandoshi City	2011/10/6	Sunny	23.5	1.18	20.8	0.0	Dark grayish yellow red	Faint mold	23	28.9	38	23	<1	<1	<1	
86	Nishiniregawa River		Ozakibashi Bridge	Kogashi City	2011/10/8	Sunny	20.2	0.38	17.8	0.0	Colorless transparent	None	69	39.1	19	6.6	<1	<1	<1	
87	Inumagawa River		Umaarabashi Bridge	Bandoshi City	2011/10/6	Clear	24.6	2.86	19.3	0.0	Dark grayish yellow red	Faint night soil	14	19.0	34	21	<1	<1	<1	
88	Inumagawa River		Center of Sugaonuma Lake	Jososhi City	2011/10/7	Clear	24.2	1.90	20.2	0.0	Dark grayish yellow red	Faint mold	20	30.3	69	26	<1	<1	<1	
89	Higashiniregawa River		Toyokambashi Bridge	Jososhi City	2011/10/7	Clear	21.8	0.70	19.5	0.0	Dark grayish yellow red	None	23	27.7	76	32	<1	<1	<1	
90	Watarasegawa River		Mikunbashi Bridge	Kogashi City	2011/9/11	Sunny	29.2	1.00	22.6	0.0	Dark grayish yellow green	None	55	28.6	26	15	<1	<1	<1	
91	Tonegawa River		Kurihashi Bridge	Kogashi City	2011/9/11	Sunny	29.5	1.00	22.8	0.0	Greenish brown	None	31	19.2	41	29	<1	<1	<1	
92	Tonegawa River		Fukawa	Tonemachi Town	2011/9/12	Sunny	24.2	1.00	24.1	0.0	Grayish yellow green	Earth	24	5.1	23	18	<1	<1	<1	
93	Tonegawa River		Sawara	Inashikishi City	2011/9/12	Sunny	31.4	1.20	26.2	0.0	Grayish yellow	Earth	5.5	2.2	76	76	<1	<1	<1	

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

River -1: 1st Sediment Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Sediment																Concentration of radioactive			Remarks	
No.	Water body		Point					Municipality	Mud temperature	Mud sampling	Color	Odor	Mechanical composition									Mud content	Soil particle	Property	Radioactive iodine	Radioactive cesium		
													Coarse	Medium	Fine	Coarse	Medium	Fine	Silt	Clay	Cs-134					Cs-137		
1	Taga River System	Satonegawa River	Yamagoyabashi Bridge	Kanabashi City	2011/9/8	Sunny	23.4	0.35	17.2	10	Olive black	None	—	0.2	0.6	3.3	62.1	22.2	6.1	5.5	77.5	2.688	Sand	<30	900	1,100		
2		Satonegawa River	Munayamabashi Bridge	Kanabashi City	2011/9/8	Sunny	31.2	0.55	22.5	10	Dark olive brown	None	—	24.7	19.4	19.3	27.2	7.7	1.7	75.2	2.709	Sand with gravel	<30	320	390			
3		Edokamigawa River	Daiichikamobashi Bridge	Kanabashi City	2011/9/8	Sunny	30.0	0.25	18.8	7	Olive black	None	—	9.5	12.2	15.9	33.7	10.6	9.6	8.5	71.8	2.678	Sand with gravel	<30	270	290		
4		Hanazonogawa River	Kurabeishi	Kanabashi City	2011/9/9	Sunny	21.6	0.35	15.8	7	Olive brown	None	—	8.0	33.8	42.8	14.3	1.1	0.0	82.0	2.713	Sand with gravel	<30	110	140			
5		Hanazonogawa River	Isonarebashi Bridge	Kanabashi City	2011/9/9	Sunny	27.2	0.45	20.1	5	Dark olive brown	None	—	6.5	11.7	38.2	40.0	3.3	0.3	80.8	2.710	Sand	<30	140	160			
6		Okitagawa River	Sakaebashi Bridge	Fakagashi City	2011/9/9	Cloudy	29.9	0.60	16.8	5	Brownish black	None	—	—	0.4	6.3	23.2	50.1	12.3	7.7	54.7	2.684	Sand with silt	<30	1,400	1,700		
7		Okitagawa River	Sakabashi Bridge	Kanabashi City	2011/9/9	Sunny	28.9	0.50	20.3	5	Brownish black	Earth	—	—	0.3	0.7	20.4	48.2	19.5	10.9	60.0	2.666	Silt with sand	<30	1,000	1,200		
8		Shitagawa River	Shinbashi Bridge	Kanabashi City	2011/9/10	Clear	27.1	0.30	21.5	5	Dark brown	None	—	0.9	11.0	40.2	44.6	1.5	1.8	77.8	2.705	Sand	<30	180	200			
9		Sekinemakawa River	Takinowakiseki Weir	Fakagashi City	2011/9/10	Clear	27.0	0.20	20.2	5	Olive brown	None	—	0.2	1.8	7.3	35.8	45.8	—	9.1	77.2	2.688	Sand	<30	260	310		
10		Sekinegawa River	Hanedabashi Bridge	Fakagashi City	2011/9/10	Clear	30.5	0.40	20.5	5	Brownish black	None	—	—	0.6	23.1	61.7	12.3	—	2.3	78.1	2.707	Sand	<30	320	370		
11		Hananukigawa River	Torizonebashi Bridge	Fakagashi City	2011/9/10	Sunny	26.0	0.30	17.0	10	Dark brown	None	—	2.2	16.1	45.2	27.6	3.4	5.5	80.9	2.702	Sand	<30	51	61			
12		Hananukigawa River	Shirhanamikubashi Bridge	Kanabashi City	2011/9/10	Sunny	30.8	0.40	22.3	10	Dark olive brown	None	—	—	1.1	30.6	60.9	2.6	4.8	79.2	2.703	Sand	<30	300	350			
13		Juogawa River	Kawajiriseki Weir	Hitachishi City	2011/9/10	Sunny	31.2	0.40	24.9	10	Dark olive brown	None	—	19.1	24.3	30.6	23.2	2.4	0.4	78.3	2.712	Sand with gravel	<30	73	80			
14		Miyatagawa River	Miyatagawabashi Bridge	Hitachishi City	2011/9/11	Sunny	25.2	0.29	23.6	5	Dark gray	None	—	32.7	34.1	23.5	7.0	0.5	2.2	90.4	2.709	Sand with gravel	<30	64	79			
15	Yamizogawa River	Mannenbashi Bridge	Daigoemachi Town	2011/9/11	Sunny	29.8	0.25	21.9	8	Dark grayish yellow	None	—	—	3.2	7.8	46.8	35.3	6.9	76.9	2.701	Gravel/sand with silt	<30	78	98				
16	Oshigawabashi River	Oshigawabashi Bridge	Daigoemachi Town	2011/9/11	Sunny	31.3	0.45	22.2	10	Brownish black	None	—	33.7	32.7	21.5	11.1	0.8	0.2	85.3	2.710	Sand with gravel	<30	12	19				
17	Takikawa River	Koisobashi Bridge	Daigoemachi Town	2011/9/11	Sunny	32.6	0.45	27.0	10	Olive brown	None	—	—	2.3	28.8	64.6	3.1	1.2	80.4	2.706	Sand	<30	43	62				
18	Kujigawa River	Yamagata	Kanabashi City	2011/9/11	Sunny	26.9	0.65	25.4	10	Dark olive brown	Faint earth	—	—	0.9	2.1	43.2	44.8	9.0	65.9	2.695	Silt with sand	<30	470	570				
19	Asakawa River	Asakawabashi Bridge	Hitachishi City	2011/9/10	Sunny	28.6	0.37	24.3	5	Olive black	None	—	—	2.9	4.1	71.5	19.5	2.0	72.0	2.707	Sand with gravel	<30	63	87				
20	Tamagawa River	Shimotamagawabashi Bridge	Hitachishi City	2011/9/8	Sunny	27.7	0.66	25.4	5	Brownish black	Faint mold	—	78.0	19.7	1.8	0.3	0.2	0.0	81.1	2.708	Gravel with sand	<30	81	91				
21	Yamadagawa River	Azumabashi Bridge	Hitachishi City	2011/9/10	Sunny	32.7	0.87	24.5	10	Dark brown	None	—	7.7	12.5	43.1	32.3	2.2	2.2	81.8	2.702	Sand with gravel	<30	11	10				
22	Satogawa River	Shinchoibashi Bridge	Hitachishi City	2011/9/10	Clear	31.8	1.00	24.4	10	Olive black	None	—	2.0	4.7	21.0	49.1	21.9	—	1.3	81.3	2.706	Sand	<30	23	37			
23	Kujigawa River	Sakakibashi Bridge	Hitachishi City	2011/9/10	Sunny	31.8	0.80	25.2	5	Brownish black	None	—	—	0.1	1.4	19.5	67.9	6.6	4.5	66.8	2.690	Sand with silt	<30	120	170			
24	Momiyagawa River	Shimizubashi Bridge	Hitachishi City	2011/9/11	Sunny	25.9	1.89	28.6	10	Black	Hydrogen sulfide	—	5.4	10.9	18.0	6.9	10.2	27.1	21.5	51.9	2.646	Silt with sand	<30	480	560			
25	Shinkawa River System	Shinkawa River	Oebashi Bridge	Tokamura Village	2011/9/11	Sunny	27.0	0.30	23.0	4	Brownish black	None	—	6.8	6.9	7.1	37.2	40.8	1.2	73.6	2.707	Sand	<30	580	670			
26	Ogawa River	Ogawabashi Bridge	Hitachishi City	2011/9/8	Sunny	23.0	0.38	21.6	10	Brownish black	None	—	17.3	12.1	14.1	41.6	14.2	0.7	81.9	2.708	Sand with gravel	<30	36	41				
27	Nakagawa River System	Nakagawa River	Noguchi	—	2011/9/8	Sunny	29.1	0.71	22.8	5	Dark olive brown	None	—	10.6	2.0	3.5	69.6	12.5	1.8	79.8	2.704	Sand with gravel	<30	75	94			
28		Shikogawa River	Isozakibashi Bridge	Shinmachi Town	2011/9/8	Sunny	29.4	0.28	20.4	5	Dark brown	None	—	16.6	14.1	21.7	40.4	7.1	—	0.1	81.3	2.711	Sand with gravel	<30	38	58		
29		Fujigawa River	Kamaibashi Bridge	Mitoshi City	2011/9/12	Sunny	31.6	1.40	22.9	5	Brownish black	None	—	55.4	29.0	8.2	3.7	0.8	2.9	91.0	2.706	Gravel	<30	50	57			
30		Nakagawa River	Shimokunii	Mitoshi City	2011/9/12	Sunny	32.7	1.30	22.0	10	Olive black	None	—	—	—	—	0.8	23.4	44.8	31.0	36.7	2.622	Silt with sand	<30	2,500	3,000		
31		Hayatogawa River	Mutsumibashi Bridge	Hitachishi City	2011/9/11	Sunny	28.6	0.25	24.7	10	Dark olive brown	None	—	—	1.6	14.8	72.7	7.7	—	3.2	71.8	2.706	Sand with gravel	<30	150	160		
32		Hayatogawa River	Water purification plant, down	Hitachishi City	2011/9/11	Sunny	30.2	0.30	25.3	5	Dark olive brown	None	—	4.2	7.9	15.9	59.8	10.6	1.6	79.1	2.702	Sand with gravel	<30	150	200			
33		Sakuragawa River	Ekinankobashi Bridge	Mitoshi City	2011/9/12	Sunny	33.2	0.70	27.9	10	Brownish gray	None	—	—	—	0.1	1.1	64.9	33.9	63.2	2.578	Silt	<30	38	71			
34		Nakagawa River	Katsutabashi Bridge	Hitachishi City	2011/9/11	Sunny	29.0	6.05	22.8	10	Olive black	None	—	—	0.5	0.0	0.7	23.1	52.4	23.3	39.2	2.624	Silt with sand	<30	2,000	2,400		
35		Nakamarugawa River	Yanagisawabashi Bridge	Hitachishi City	2011/10/3	Sunny	21.2	0.20	19.5	10	Black	Earth	—	1.6	1.2	1.1	5.0	17.0	47.6	26.5	35.0	2.622	Sand with silt	<30	2,000	2,400		
36		Hinumagawa River	Hinumakawa River	Nagaokabashi Bridge	Hitachishi City	2011/10/4	Clear	23.2	0.10	16.9	10	Dark olive brown	None	—	4.3	0.9	0.7	32.8	58.7	2.6	77.7	2.704	Sand with gravel	<30	220	240		
37			Hinumagawa River	Takahashi	Hitachishi City	2011/10/4	Clear	18.7	0.20	16.2	10	Brownish black	None	—	5.2	19.8	43.2	29.9	1.4	0.5	87.8	2.709	Sand with gravel	<30	37	47		
38			Kanseigawa River	Kanseibashi Bridge	Hitachishi City	2011/10/4	Sunny	16.2	0.60	14.5	10	Brownish black	None	—	—	5.7	35.8	48.7	5.4	4.4	87.1	2.700	Sand with gravel	<30	76	91		
39			Daiyagawa River	Oyabashi Bridge	Hitachishi City	2011/10/4	Sunny	12.1	0.60	14.8	10	Brownish black	None	—	—	5.4	29.6	59.5	4.4	1.1	82.7	2.709	Sand with gravel	<30	140	180		
40	Ishikawagawa River		Inobashi Bridge	Mitoshi City	2011/9/12	Sunny	28.1	0.60	25.6	10	Olive black	Earth	—	—	6.1	9.4	46.8	35.9	1.8	77.5	2.708	Sand with silt	<30	74	81			
41	Hinumagawa River		Hinumabashi Bridge	Hitachishi City	2011/10/3	Sunny	21.4	0.60	19.2	10	Olive black	Iso	—	27.3	9.3	12.8	30.7	14.2	5.7	75.4	2.702	Sand with gravel	<30	270	360			
42	Tonegawa River System	Hokotagawa River	Asahibashi Bridge	Hokotashi City	2011/9/10	Sunny	31.1	1.00	25.3	5	Dark grayish yellow	None	—	0.9	3.8	14.0	56.2	23.2	1.9	76.1	2.708	Sand	<30	170	220			
43		Tomogawa River	Shinomogawabashi Bridge	Hokotashi City	2011/9/10	Clear	29.8	0.80	24.2	5	Brownish black	None	—	2.1	12.4	31.5	44.9	8.1	1.0	81.1	2.706	Sand with gravel	<30	130	150			
44		Taiyogawa River	Tazukabashi Bridge	Hokotashi City	2011/9/10	Sunny	31.4	0.23	24.0	5	Dark yellowish brown	None	—	—	2.9	5.9	12.7	73.1	5.4	70.3	2.697	Sand	<30	330	390			
45		Takedagawa River	Uchijukuhashi Bridge	Samugashi City	2011/10/3	Sunny	21.8	0.40	16.3	10	Dark brown	Faint earth	—	—	3.7	16.4	60.0	14.2	5.7	79.0	2.704	Sand	<30	200	260			
46		Yamadagawa River	Nioroshibashi Bridge	Samugashi City	2011/10/3	Sunny	22.0	0.55	17.4	5	Dark brown	Faint earth	—	—	1.3	25.1	66.7	—	6.9	70.8	2.692	Sand with gravel	<30	270	330			
47		Kurakawa River	Kurakawabashi Bridge	Samugashi City	2011/10/3	Sunny	22.1	0.88	18.1	10	Dark brown	Faint earth	—	—	0.4	9.5	61.2	9.8	8.1	11.0	62.8	2.686	Sand with silt	<30	460	560		
48		Gantsugawa River	JA Yokohashi	Samugashi City	2011/10/3	Sunny	23.3	0.19	20.0	3	Dark brown	None	—	3.8	1.1	9.1	74.5	9.4	2.1	84.5	2.706	Sand with gravel	<30	150	170			
49	Nagaregawa River	Suhoibashi Bridge	Kanabashi City	2011/10/4	Sunny	22.0	0.20	19.6	2	Dark olive gray	Faint sewage	—	2.2	3.8	8.4	37.0	40.9	7.7	72.8	2.687	Gravel/sand with silt	<30	580	680				

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

## River -2: 1st Sediment Monitoring Results

No.	Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Sediment																		Remarks
	Water body	Point	Municipality	General items																							
				Mud temperature					Mud sampling	Color	Odor	Mechanical composition						Mud content	Soil particle	Property	Concentration of radioactive						
												Coarse	Medium	Fine	Coarse	Medium	Fine				Silt	Clay	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137		
50	Kasumigaura Lake	Sonobogawa River	Sonobeshimbashi Bridge	Omahara City	2011/9/10	Clear	28.5	1.75	23.0	10	Brownish black	None	--	--	0.5	8.9	78.3	9.9	--	2.4	81.3	2.704	Sand with silt	<30	120	160	
51		Sannogawa River	Tokorobashi Bridge	Maebashi City	2011/9/9	Sunny	31.6	0.58	25.4	12	Dark olive brown	Faint sewage	--	2.1	7.0	20.4	63.1	7.1	--	0.3	82.2	2.710	Sand with silt	<30	920	1,000	
52		Koisoigawa River	Heiwabashi Bridge	Ishikawa City	2011/9/9	Sunny	30.8	0.95	23.3	10	Dark brown	Faint oil and grease	--	--	3.1	21.4	66.0	7.0	--	2.5	81.1	2.707	Sand with gravel	<30	84	110	
53		Kajinashigawa River	Kamishukubashi Bridge	Namatagawa City	2011/9/10	Clear	29.9	0.58	22.3	10	Brownish black	None	--	--	2.0	9.9	81.9	5.7	--	0.5	79.0	2.708	Sand with gravel	<30	120	150	
54		Hishikigawa River	Hishikibashi Bridge	Kanagawa City	2011/9/10	Sunny	30.6	0.32	24.4	10	Brownish black	None	--	--	1.6	10.6	71.1	15.9	--	0.8	71.1	2.711	Sand with gravel	<30	600	720	
55		Ichinosegawa River	Kawanakabashi Bridge	Kanagawa City	2011/9/10	Sunny	31.3	1.52	25.0	5	Brownish black	Earth	--	--	0.6	2.3	49.2	28.3	8.5	11.1	60.1	2.682	Sand with silt	<30	870	1,000	
56		Sakaigawa River	Sakabashi Bridge/National Route 354	Fuchinomiya City	2011/9/10	Sunny	30.5	0.68	25.5	5	Brownish black	Faint sewage	--	26.3	19.6	18.5	30.4	4.5	--	0.7	80.7	2.704	Sand with gravel	<30	1,100	1,200	
57		Shinkawa River	Shintenbashi Bridge	Fuchinomiya City	2011/10/3	Sunny	18.4	1.80	20.6	6	Olive black	Earth	--	--	1.1	2.3	34.1	12.3	21.1	29.1	30.0	2.656	Silt with sand	<30	2,600	2,900	
58		Sakuragawa River	Eiribashi Bridge	Maebashi City	2011/9/9	Sunny	26.8	0.95	24.8	5	Gray/Brown	None	--	7.9	3.1	7.5	61.3	18.8	--	1.4	82.6	2.708	Sand with gravel	<30	29	29	
59		Bizengawa River	Bizengawabashi Bridge	Fuchinomiya City	2011/10/3	Clear	20.4	0.70	19.2	7	Olive black	Faint sewage	--	8.5	8.6	14.2	49.8	16.7	--	2.2	78.1	2.702	Sand with gravel	<30	1,200	1,400	
60		Hanamurogawa River	Shinwabashi Bridge	Fuchinomiya City	2011/10/3	Sunny	21.8	0.30	21.7	5	Brownish black	Faint sewage	--	6.5	8.0	16.9	58.4	7.2	--	3.0	82.6	2.704	Sand with gravel	<30	610	780	
61		Seimeigawa River	Katsuhashi Bridge	Amami Town	2011/10/3	Clear	22.6	0.50	21.4	7	Brownish black	None	--	--	0.2	3.2	72.0	22.3	--	2.3	79.7	2.696	Sand	<30	640	780	
62		Omogawa River	Okuharaohashi Bridge	Maebashi City	2011/9/12	Sunny	28.9	1.35	26.4	10	Yellowish gray	Earth	--	--	0.2	3.5	58.6	33.3	--	4.4	77.5	2.692	Sand	<30	100	160	
63	Shintonegawa River	Shintonebashi Bridge	Maebashi City	2011/9/12	Cloudy	31.4	3.35	28.4	10	Gray	Earth	--	3.6	4.8	3.0	9.0	15.0	33.2	31.4	42.1	2.634	Silt with sand	<30	100	120		
64	Hitachitonegawa River	Yorokoshigawa River	Horinouchibashi Bridge	Itakoshi City	2011/10/4	Clear	19.4	0.40	16.8	5	Olive black	None	--	9.8	5.4	6.4	29.4	11.6	11.3	26.1	36.7	2.650	Gravel/silt with sand	<30	110	180	
65		Maekawa River	Ayamebashi Bridge	Itakoshi City	2011/10/4	Sunny	20.0	2.10	20.7	8	Olive black	Faint sewage	--	--	0.4	0.1	17.6	69.9	5.8	6.2	64.4	2.688	Silt with sand	<30	230	280	
66		Kinugawa River	Kawashimbashi Bridge	Chikusei City	2011/10/8	Sunny	20.8	0.60	17.8	5	Brownish black	None	--	25.8	4.3	10.0	25.2	30.2	--	4.5	79.7	2.698	Sand with gravel	<30	<10	<10	
67	Kinugawa River	Kinugawa River	Takshitabashi Bridge	Moriyoshi City	2011/10/7	Clear	22.6	0.30	18.8	5	Brownish black	None	--	--	0.3	19.5	62.8	9.5	7.9	77.2	2.688	Sand	<30	56	74		
68		Tagawa River	Tagawabashi Bridge	Chikusei City	2011/10/8	Sunny	20.0	0.89	17.0	5	Brownish black	Faint earth	--	9.0	1.8	1.0	9.2	29.7	30.7	18.6	35.5	2.652	Sand with silt	<30	490	590	
69	Kokaigawa River	Hachikenborigawa River	Ishiarabashi Bridge	Jososhi City	2011/10/7	Sunny	21.2	0.80	19.3	8	Black	Faint petroleum	--	--	--	0.8	3.7	41.7	53.8	55.7	2.576	Silt	<30	27	44		
70		Gogyogawa River	Shimookabashi Bridge	Chikusei City	2011/8/30	Clear	26.6	0.96	23.2	5	Olive black	Earth	--	--	8.9	1.8	27.4	54.2	--	7.7	60.9	2.688	Silt with sand	<30	200	210	
71		Daiyagawa River	Nahibokaminohashi Bridge	Chikusei City	2011/8/30	Sunny	29.8	1.06	24.6	5	Olive black	None	--	--	--	0.4	56.0	32.9	6.3	4.4	70.7	2.692	Sand	<30	130	170	
72		Kokaigawa River	Kurokobashi Bridge	Chikusei City	2011/8/30	Sunny	30.5	1.85	26.1	5	Dark olive brown	Faint earth	--	--	0.7	0.2	10.8	49.0	20.0	19.3	55.3	2.654	Silt with sand	<30	280	340	
73		Itokurigawa River	Jukyubashi Bridge	Shimotsurugawa City	2011/8/30	Sunny	30.0	0.98	24.9	10	Olive black	None	--	--	0.1	1.6	22.9	41.8	16.4	17.2	53.9	2.664	Silt with sand	<30	220	340	
74		Nakadorigawa River	Itamishinbashi Bridge	Fukushima City	2011/10/6	Sunny	22.8	1.75	19.2	10	Olive black	None	--	--	0.4	0.1	1.0	31.1	37.9	29.5	43.7	2.634	Silt with sand	<30	280	370	
75		Kokaigawa River	Fumimakibashi Bridge	Chikusei City	2011/10/6	Sunny	23.6	0.60	19.7	7	Dark olive brown	None	--	1.0	0.7	0.4	18.0	33.8	23.4	22.7	56.0	2.644	Gravel/silt with sand	<30	220	280	
76		Yatagawa River	Maruyamabashi Bridge	Itakoshi City	2011/10/6	Sunny	22.0	3.30	19.8	10	Olive black	None	--	--	--	0.1	0.3	86.9	7.3	5.4	65.4	2.678	Sand with silt	<30	290	370	
77		Nishiyatagawa River	Sakaminabashi Bridge	Itakoshi City	2011/10/6	Cloudy	18.8	1.30	19.0	10	Brownish black	None	--	1.1	4.2	25.0	56.5	12.0	--	1.2	79.1	2.707	Sand with gravel	<30	220	280	
78		Inarigawa River	Ogukibashi Bridge	Itakoshi City	2011/10/6	Sunny	22.8	1.18	17.8	10	Dark olive brown	None	--	17.3	13.8	13.1	36.4	18.0	--	1.4	78.7	2.710	Sand with gravel	<30	900	1,000	
79	Yatagawa River	Ushikunuma Lake exit	Fujisaki City	2011/10/6	Sunny	23.6	2.25	20.2	8	Olive black	None	--	--	--	0.3	26.3	64.6	--	8.8	72.8	2.692	Sand	<30	160	210		
80	Tonegawa River	Mukaiborigawa River	Isagobashi Bridge	Kogashi City	2011/9/11	Sunny	29.0	0.40	26.8	4	Dark olive brown	None	--	--	0.1	0.3	16.5	48.2	19.3	15.6	51.6	2.660	Sand with silt	<30	170	260	
81		Isokawa River	Mizaumbashi Bridge	Kogashi City	2011/10/6	Cloudy	20.3	1.05	20.1	3	Olive black	Faint petroleum	--	3.3	7.5	19.0	64.6	4.0	--	1.6	79.9	2.712	Sand	<30	56	76	
82		Shimonoosuro Channel	Kusakabashi Bridge	Kogashi City	2011/9/11	Sunny	31.2	0.50	28.4	10	Black	None	--	--	17.3	28.1	46.3	7.1	--	1.2	77.3	2.710	Sand with gravel	<30	180	190	
83		Miyatogawa River	Miyatogawabashi Bridge	Sakamachi Town	2011/10/6	Sunny	23.8	1.53	18.6	3	Dull yellowish brown	None	--	--	1.6	2.3	10.6	30.8	33.7	21.0	51.9	2.638	Sand with silt	<30	78	100	
84		Okawa River	Owadabashi Bridge	Kogashi City	2011/10/8	Sunny	17.8	0.08	20.6	1	Olive black	None	11.7	19.9	8.4	11.7	29.2	16.7	--	2.4	70.8	2.709	Sand with gravel	<30	85	120	
85		Kuguidogawa River	Katashibashi Bridge	Bandoshi City	2011/10/6	Sunny	23.5	1.18	20.2	5	Brownish black	None	--	--	2.0	10.3	45.6	8.5	19.6	14.0	54.1	2.670	Gravel/sand with silt	<30	240	320	
86		Nishiniregawa River	Ozakibashi Bridge	Kogashi City	2011/10/8	Sunny	20.2	0.38	19.4	3	Brownish black	None	12.3	43.3	9.6	6.3	21.7	5.3	--	1.5	78.8	2.705	Sand with gravel	<30	36	67	
87		Inumagawa River	Umaarabashi Bridge	Bandoshi City	2011/10/6	Clear	24.6	2.86	20.0	2	Brownish black	None	--	--	1.4	2.6	8.9	36.8	32.5	17.8	55.0	2.666	Sand with silt	<30	300	380	
88		Inumagawa River	Center of Sugonuma Lake	Bandoshi City	2011/10/7	Clear	24.2	1.90	20.3	5	Brownish black	Faint petroleum	--	--	1.0	3.8	25.0	24.7	18.8	26.7	55.2	2.658	Sand with silt	<30	<10	<10	
89		Higashiniregawa River	Toyokambashi Bridge	Bandoshi City	2011/10/7	Clear	21.8	0.70	19.5	10	Brownish black	Faint petroleum	--	3.7	1.5	1.1	18.4	46.3	12.1	16.9	58.7	2.680	Sand with silt	<30	110	150	
90		Watarasegawa River	Mikunibashi Bridge	Kogashi City	2011/9/11	Sunny	29.2	1.00	23.0	10	Olive black	Faint petroleum	--	--	--	--	2.5	59.0	22.4	16.1	50.5	2.668	Silt with sand	<30	350	390	
91		Tonegawa River	Kurihashi Bridge	Kogashi City	2011/9/11	Sunny	29.5	1.00	22.5	10	Brownish black	None	--	--	0.1	0.2	3.8	37.8	37.8	20.3	41.9	2.652	Silt with sand	<30	650	790	
92		Tonegawa River	Fukawa	Fonetsu Town	2011/9/12	Sunny	24.2	1.00	23.1	5	Gray	Earth	--	--	--	--	1.0	22.9	50.8	25.3	46.7	2.620	Silt with sand	<30	350	470	
93	Tonegawa River	Sawara	Maebashi City	2011/9/12	Sunny	31.4	1.20	28.4	2	Olive black	None	--	--	1.6	0.2	1.4	74.3	14.6	7.9	61.2	2.680	Sand	<30	560	660		

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

### River-1: 1st Surrounding Environment (River Terrace (Left Bank)) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Surrounding environment (soil/herb/air dose)										Remarks	
Water body							Left bank											
							Soil			Concentration of radioactive				Herb				Air dose (µSv/h)
							Color	Odor	Property	Radioactive iodine	Radioactive cesium		Radioactive iodine	Radioactive cesium				
Cs-134	Cs-137	Cs-134	Cs-137															
1	Taga River System	Satonegawa River	Yamagoyabashi Bridge	Chiharabashi City	2011/9/8	Sunny	23.4	Black	Faint earth	Clay-loamy	<30	190	230	<30	180	230	0.48	
2		Satonegawa River	Murayamabashi Bridge	Chiharabashi City	2011/9/8	Sunny	31.2	Dark olive brown	Faint earth	Sandy	<30	890	1,000	<30	76	87	0.22	
3		Edokamigawa River	Daiichihamaokubashi Bridge	Chiharabashi City	2011/9/8	Sunny	30.0	Brownish black	Faint earth	Loamy	<30	1,200	1,500	<30	25	33	0.20	
4		Hanazonogawa River	Kurabetsushi	Chiharabashi City	2011/9/9	Sunny	21.6	Dark olive brown	None	Sandy	<30	310	370	<30	18	45	0.22	
5		Hanazonogawa River	Isonarebashi Bridge	Chiharabashi City	2011/9/9	Sunny	27.2	Brownish black	Faint earth	Loamy	<30	1,000	1,100	<30	10	11	0.23	
6		Okitagawa River	Sakaebashi Bridge	Fukagasaki City	2011/9/9	Cloudy	29.9	Brownish black	Faint earth	Sandy	<30	120	160	<30	13	15	0.15	
7		Okitagawa River	Sakaibashi Bridge	Chiharabashi City	2011/9/9	Sunny	28.9	Dark olive brown	Faint earth	Loamy	<30	520	620	<30	13	<10	0.22	
8		Shiotagawa River	Shinbashi Bridge	Chiharabashi City	2011/9/10	Clear	27.1	Brownish black	Faint earth	Loamy	<30	280	330	<30	20	24	0.18	
9		Sekinemaekawa River	Takinowakiseki Weir	Fukagasaki City	2011/9/10	Clear	27.0	Dark brown	Faint earth	Sandy	<30	350	450	<30	10	11	0.26	
10		Sekinegawa River	Hanedabashi Bridge	Fukagasaki City	2011/9/10	Clear	30.5	Brownish black	None	Sandy	<30	380	460	<30	26	33	0.22	
11		Hananukigawa River	Torizonobashi Bridge	Fukagasaki City	2011/9/10	Sunny	26.0	Olive brown	None	Sandy	<30	360	430	<30	970	1,200	0.17	
12		Hananukigawa River	Shinhananukubashi Bridge	Fukagasaki City	2011/9/10	Sunny	30.8	Dark brown	Earth	Sandy	<30	1,600	1,800	<30	11	18	0.17	
13		Juogawa River	Kawajiriseki Weir	Hachibashi City	2011/9/10	Sunny	31.2	Brownish black	Earth	Clay-loamy	<30	1,300	1,500	<30	23	22	0.12	
14		Miyatagawa River	Miyatagawabashi Bridge	Hachibashi City	2011/9/11	Sunny	25.2	Brownish gray	None	Sandy	<30	240	270	<30	310	370	0.20	
15		Yamizogawa River	Mannenbashi Bridge	Shimizu City	2011/9/11	Sunny	29.8	Brownish black	Earth	Loamy	<30	140	170	<30	<10	<10	0.21	*
16	Oshigawa River	Oshigawabashi Bridge	Shimizu City	2011/9/11	Sunny	31.3	Dark grayish yellow	Earth	Loamy	<30	160	170	<30	<10	<10	0.17	*	
17	Takikawa River	Koisobashi Bridge	Shimizu City	2011/9/11	Sunny	32.6	Dark olive brown	Earth	Sandy	<30	170	220	<30	<10	17	0.14	*	
18	Kujigawa River	Yamagata	Hachibashi City	2011/9/11	Sunny	26.9	Olive brown	Earth	Loamy	<30	140	150	<30	<10	<16	0.21	*	
19	Asakawa River	Asakawabashi Bridge	Hachibashi City	2011/9/10	Sunny	28.6	Brownish black	Earth	Clay-loamy	<30	260	340	<30	12	<12	0.17	*	
20	Tamagawa River	Shimotamagawabashi Bridge	Chiharabashi City	2011/9/8	Sunny	27.7	Brownish black	Earth	Clay-loamy	<30	240	280	<30	<10	<10	0.13		
21	Yamadagawa River	Azumabashi Bridge	Chiharabashi City	2011/9/10	Sunny	32.7	Brownish black	Earth	Clay-loamy	<30	180	190	<30	<10	<10	0.17	*	
22	Satogawa River	Shimochiabashi Bridge	Chiharabashi City	2011/9/10	Clear	31.8	Brownish black	Earth	Clay-loamy	<30	620	730	<30	<10	<10	0.21	*	
23	Kujigawa River	Sakakibashi Bridge	Chiharabashi City	2011/9/10	Sunny	31.8	Brownish black	Earth	Clay-loamy	<30	270	300	<30	<10	<10	0.24	*	
24	Momiyagawa River	Shimizuabashi Bridge	Hachibashi City	2011/9/11	Sunny	25.9	Brownish black	None	Sandy	<30	110	110	<30	<10	<10	0.13		
25	Shinkawa River System	Shinkawa River	Oebashi Bridge	Yokohama Village	2011/9/11	Sunny	27.0	Brownish black	Faint earth	Loamy	<30	340	450	<30	96	110	0.14	
26	Nakagawa River System	Ogawa River	Ogawabashi Bridge	Hachibashi City	2011/9/8	Sunny	23.0	Brownish black	Earth	Clay-loamy	<30	220	260	<30	<10	<10	0.12	
27		Nakagawa River	Noguchi	Chiharabashi City	2011/9/8	Sunny	29.1	Dark olive brown	Earth	Loamy	<30	370	410	<30	<10	<10	0.13	
28		Shiokogawa River	Isozakibashi Bridge	Shimizu City	2011/9/8	Sunny	29.4	Brownish black	Earth	Loamy	<30	180	220	<30	<10	<10	0.13	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil
29		Fujigawa River	Kamiabashi Bridge	Mitoshi City	2011/9/12	Sunny	31.6	Brownish black	Earth	Clay-loamy	<30	250	290	<30	25	44	0.09	
30		Nakagawa River	Shimokuni	Mitoshi City	2011/9/12	Sunny	32.7	Dark brown	Earth	Loamy	<30	420	530	<30	<10	15	0.10	
31		Hayatogawa River	Musumibashi Bridge	Chiharabashi City	2011/9/11	Sunny	28.6	Dark brown	Earth	Loamy	<30	330	420	<30	<10	14	0.13	
32		Hayatogawa River	Water purification plant, down	Chiharabashi City	2011/9/11	Sunny	30.2	Brownish black	None	Loamy	<30	130	140	<30	<10	<10	0.12	
33		Sakuragawa River	Ekmankohashi Bridge	Mitoshi City	2011/9/12	Sunny	33.2	Brownish black	Earth	Sandy	<30	970	1,100	<30	22	<14	0.09	
34		Nakagawa River	Katsutabashi Bridge	Chiharabashi City	2011/9/11	Sunny	29.0	Dark brown	Faint earth	Loamy	<30	370	390	<30	<10	<10	0.12	
35		Nakamagawa River	Yamagawabashi Bridge	Chiharabashi City	2011/10/3	Sunny	21.2	Dark olive brown	None	Loamy	<30	370	450	<30	38	47	0.15	
36		Hinumagawa River	Nagaokabashi Bridge	Hachibashi City	2011/10/4	Clear	23.2	Brownish black	Earth	Loamy	<30	170	200	<30	<10	15	0.14	
37		Hinumagawa River	Takahashi	Hachibashi City	2011/10/4	Clear	18.7	Brownish black	Earth	Loamy	<30	310	360	<30	29	43	0.15	
38		Kanseigawa River	Kanseibashi Bridge	Hachibashi City	2011/10/4	Sunny	16.2	Brownish black	Earth	Loamy	<30	190	230	<30	57	57	0.16	
39	Daiyagawa River	Oyabashi Bridge	Chiharabashi City	2011/10/4	Sunny	12.1	Black	Earth	Loamy	<30	700	840	<30	110	110	0.13	Due to debris, unable to enter to measure surrounding environments	
40	Ishikawagawa River	Inobashi Bridge	Mitoshi City	2011/9/12	Sunny	28.1	Brownish black	Earth	Loamy	<30	1,300	1,400	<30	290	320	0.13		
41	Hinumagawa River	Hinumabashi Bridge	Chiharabashi City	2011/10/3	Sunny	21.4	Brownish black	None	Loamy	<30	410	460	—	—	—	0.25		
42	Hokotagawa River	Asahibashi Bridge	Hokotashi City	2011/9/10	Sunny	31.1	—	—	—	—	—	—	—	—	—	0.17	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil *1	
43	Tomogawa River	Shimomogawabashi Bridge	Hokotashi City	2011/9/10	Clear	29.8	Brownish black	Seaweed	Clay-loamy	<30	420	500	<30	<10	17	0.34	*	
44	Taiyogawa River	Tazukabashi Bridge	Hokotashi City	2011/9/10	Sunny	31.4	Dark olive brown	None	Clay-loamy	<30	450	550	<30	22	24	0.29	*	
45	Takedagawa River	Uchijukuhashi Bridge	Sanganashi City	2011/10/3	Sunny	21.8	Dark brown	Earth	Sandy	<30	220	260	<30	<10	<10	0.19		
46	Yamadagawa River	Niroshibashi Bridge	Sanganashi City	2011/10/3	Sunny	22.0	Dark brown	Earth	Loamy	<30	860	1,100	<30	<10	<10	0.16		
47	Kurakawa River	Kurakawabashi Bridge	Sanganashi City	2011/10/3	Sunny	22.1	Dark olive brown	Earth	Loamy	<30	600	750	<30	14	18	0.15		
48	Gantsugawa River	JA Yokohashi	Sanganashi City	2011/10/3	Sunny	23.3	Dark olive brown	Earth	Loamy	<30	730	910	<30	<10	19	0.16		
49	Nagaregawa River	Suhoibashi Bridge	Chiharabashi City	2011/10/4	Sunny	22.0	—	—	—	—	—	—	—	—	—	0.10	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil	

Note: \*Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd. For points with \*1 in the Remarks column, a survey meter, Model 3 of Ludlum Measurement Inc., and for those with \*2, a Model 5000 of Health Physics Instruments was used.

Figures measured with either a Model 3 or a Model 5000 had a tendency to be a little higher than those measured with a TCS-172 or TCS-161 (about 1.6 times higher).

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

River-2: 1st Surrounding Environment (River Terrace (Left Bank)) Monitoring Results

No	Sampling point			Sampling date	Weather	Air temperature °C	Surrounding environment (soil/herb/air dose)										Remarks		
							Left bank												
							Soil			Concentration of radioactive			Herb			Air dose (µSv/h)			
							Color	Odor	Property	Radioactive	Radioactive cesium Cs-134	Radioactive cesium Cs-137	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137				
50	Kasumigaura Lake	Sonobegawa River	Sonobeshinashi Bridge	Utsunomiya City	2011/9/10	Clear	28.5	brownish black	Earth	Loamy	<30	300	380	<30	<10	12	0.12		
51		Sannogawa River	Tokorobashi Bridge	Utsunomiya City	2011/9/9	Sunny	31.6	brownish black	Earth	Loamy	<30	530	600	<30	46	48	0.16		
52		Koiesogawa River	Heiwabashi Bridge	Utsunomiya City	2011/9/9	Sunny	30.8	brownish black	Earth	Loamy	<30	440	550	<30	<10	18	0.20		
53		Kajinashigawa River	Kamishukubashi Bridge	Utsunomiya City	2011/9/10	Clear	29.9	brownish black	Earth	Loamy	<30	3,100	3,800	<30	40	40	0.14		
54		Hishikigawa River	Hishikibashi Bridge	Utsunomiya City	2011/9/10	Sunny	30.6	brownish black	Earth	Loamy	<30	4,800	5,200	<30	42	52	0.16		
55		Ichinosegawa River	Kawanakabashi Bridge	Utsunomiya City	2011/9/10	Sunny	31.3	brownish black	Earth	Loamy	<30	280	330	<30	<10	<10	0.13		
56		Sakaigawa River	Sakabashi Bridge (National Route 354)	Fuchinomiya City	2011/9/10	Sunny	30.5	Dark brown	Earth	Loamy	<30	750	840	<30	<10	27	0.24		
57		Shinkawa River	Shintenbashi Bridge	Fuchinomiya City	2011/10/3	Sunny	18.4	dark greyish yellow	Earth	Sandy	<30	1,200	1,700	<30	37	44	0.18		
58		Sakuragawa River	Eiribashi Bridge	Fuchinomiya City	2011/9/9	Sunny	26.8	brownish black	Earth	Loamy	<30	250	310	<30	<10	<10	0.12		
59		Bizengawa River	Bizengawabashi Bridge	Fuchinomiya City	2011/10/3	Clear	20.4	dark olive brown	Earth	Loamy	<30	1,100	1,500	<30	15	19	0.16		
60		Hananurogawa River	Shinwabashi Bridge	Fuchinomiya City	2011/10/3	Sunny	21.8	dark greyish yellow	Earth	Loamy	<30	860	1,000	<30	28	31	0.25		
61		Seimeigawa River	Katsuhashi Bridge	Atsumi City	2011/10/3	Clear	22.6	dark olive brown	Earth	Loamy	<30	440	550	<30	17	24	0.31		
62		Onogawa River	Okuharaohashi Bridge	Fuchinomiya City	2011/9/12	Sunny	28.9	brownish black	None	Loamy	<30	310	370	<30	18	21	0.22		
63		Shintonegawa River	Shintonebashi Bridge	Maebashi City	2011/9/12	Cloudy	31.4	brownish black	Earth	Loamy	<30	1,100	1,200	<30	49	57	0.17		
64		Hitachitonegawa River	Yorokoshigawa River	Hornouchibashi Bridge	Itakoshi City	2011/10/4	Clear	19.4	dark olive brown	Earth	Loamy	<30	260	300	<30	19	22	0.11	
65			Maekawa River	Ayamebashi Bridge	Itakoshi City	2011/10/4	Sunny	20.0	—	—	—	—	—	—	—	—	0.09	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil	
66		Kinugawa River	Kinugawa River	Kawashimabashi Bridge	Itakoshi City	2011/10/8	Sunny	20.8	brownish black	Earth	Loamy	<30	72	84	<30	<10	<10	0.18	*2
67			Kinugawa River	Takishitabashi Bridge	Moriyasu City	2011/10/7	Clear	22.6	brownish black	Earth	Loamy	<30	630	800	<30	<10	<10	0.22	
68			Tagawa River	Tagawabashi Bridge	Itakoshi City	2011/10/8	Sunny	20.0	brownish black	Earth	Loamy	<30	69	65	<30	<10	10	0.16	*2
69		Kokaigawa River	Hachikenborigawa River	Ishiarabashi Bridge	Itosashi City	2011/10/7	Sunny	21.2	brownish black	Earth	Loamy	<30	360	430	<30	<10	<10	0.14	
70			Gogyogawa River	Shimookabashi Bridge	Itakoshi City	2011/8/30	Clear	26.6	brownish black	Faint earth	Loamy	<30	95	140	<30	40	44	0.05	
71			Daiyagawa River	Nishihokanmohashi Bridge	Itakoshi City	2011/8/30	Sunny	29.8	brownish black	Earth	Loamy	<30	91	97	<30	16	20	0.04	
72			Kokaigawa River	Kurokobashi Bridge	Itakoshi City	2011/8/30	Sunny	30.5	brownish black	Faint earth	Loamy	<30	240	270	<30	<10	15	0.05	
73			Itokurigawa River	Jukyubashi Bridge	Itosashi City	2011/8/30	Sunny	30.0	brownish black	Faint earth	Loamy	<30	53	61	<30	100	110	0.05	
74			Nakadorigawa River	Itamishinashi Bridge	Itakoshi City	2011/10/6	Sunny	22.8	brownish black	Earth	Clay-loamy	<30	770	890	<30	<10	<10	0.17	
75			Kokaigawa River	Fumimabashi Bridge	Itakoshi City	2011/10/6	Sunny	23.6	brownish black	Earth	Loamy	<30	860	1,000	<30	<10	<10	0.16	
76			Yatagawa River	Maruyamabashi Bridge	Itakoshi City	2011/10/6	Sunny	22.0	brownish black	Earth	Loamy	<30	1,600	1,900	<30	<10	15	0.17	
77			Nishiyatagawa River	Sakaimatubashi Bridge	Itakoshi City	2011/10/6	Cloudy	18.8	Black	Earth	Clay-loamy	<30	450	570	<30	<10	<10	0.19	
78			Inarigawa River	Ogukibashi Bridge	Itakoshi City	2011/10/6	Sunny	22.8	brownish black	Earth	Clay-loamy	<30	1,200	1,500	<30	47	56	0.19	
79			Yatagawa River	Ushikunuma Lake exit	Yogakoshi City	2011/10/6	Sunny	23.6	brownish black	Earth	Clay-loamy	<30	700	900	<30	<10	<10	0.14	
80		Tonegawa River	Mukaiborigawa River	Isagoibashi Bridge	Kogashi City	2011/9/11	Sunny	29.0	Brown	Earth	Clay-loamy	<30	140	180	<30	<10	<10	0.05	
81			Isokawa River	Mizuumibashi Bridge	Kogashi City	2011/10/6	Cloudy	20.3	Dark brown	Earth	Loamy	<30	120	160	<30	<10	14	0.09	
82			Shimonosuiro Channel	Kusakabeshi Bridge	Kogashi City	2011/9/11	Sunny	31.2	brownish black	Earth	Clay-loamy	<30	340	390	<30	<10	<16	0.05	
83			Miyatogawa River	Miyatogawabashi Bridge	Atsumi City	2011/10/6	Sunny	23.8	brownish black	Earth	Loamy	<30	62	88	<30	<10	<10	0.08	
84	Okawa River		Owadabashi Bridge	Kogashi City	2011/10/8	Sunny	17.8	Black	Earth	Clay-loamy	<30	420	500	<30	15	18	0.15	*2	
85	Kuguidogawa River		Katashibeshi Bridge	Bandoshi City	2011/10/6	Sunny	23.5	Dark brown	Earth	Loamy	<30	110	120	<30	<10	14	0.09		
86	Nishiniregawa River		Ozakibashi Bridge	Kogashi City	2011/10/8	Sunny	20.2	dark olive brown	Earth	Loamy	<30	100	110	<30	<10	<10	0.14	*2	
87	Inumagawa River		Umarabashi Bridge	Bandoshi City	2011/10/6	Clear	24.6	Dark brown	Earth	Loamy	<30	63	97	<30	<10	<10	0.08		
88	Inumagawa River		Center of Suganuma Lake	Bandoshi City	2011/10/7	Clear	24.2	brownish black	Earth	Loamy	<30	130	140	<30	44	41	0.15		
89	Higashiniregawa River		Toyokambashi Bridge	Bandoshi City	2011/10/7	Clear	21.8	Dark brown	Earth	Loamy	<30	92	100	<30	<10	<10	0.10		
90	Watarasagawa River		Mikumibashi Bridge	Kogashi City	2011/9/11	Sunny	29.2	brownish black	Earth	Clay-loamy	<30	180	210	<30	30	64	0.07		
91	Tonegawa River		Kurihashi Bridge	Kogashi City	2011/9/11	Sunny	29.5	light yellow orange	Earth	Clay-loamy	<30	110	130	<30	110	140	0.07		
92	Tonegawa River		Fukawa	Itosashi Town	2011/9/12	Sunny	24.2	brownish black	None	Loamy	<30	660	780	<30	18	24	0.25		
93	Tonegawa River		Sawara	Maebashi City	2011/9/12	Sunny	31.4	brownish black	Earth	Loamy	<30	110	140	<30	<10	<10	0.09		

Note: Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd. For points with \*1 in the Remarks column, a survey meter, Model 3 of Ludlum Measurement Inc., and for those with \*2, a Model 5000 of Health Physics Instruments was used. Figures measured with either a Model 3 or a Model 5000 had a tendency to be a little higher than those measured with a TCS-172 or TCS-161 (about 1.6 times higher).

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



### River-1: 1st Surrounding Environment (River Terrace (Right Bank)) Monitoring Results

No	Sampling point			Sampling date	Weather	Air temperature (°C)	Surrounding environment (soil/herb/air dose)											Remarks	
	Water body	Point	Municipality				Right bank												
							Soil			Concentration of radioactive				Herb					Air dose (μSv/h)
							Color	Odor	Property	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137				
1	Taga River System	Satonegawa River	Yamagoyabashi Bridge	Chiharashiki City	2011/9/8	Sunny	23.4	Dark olive brown	Faint earth	Loamy	<30	570	700	<30	410	510	0.35		
2		Satonegawa River	Murayamabashi Bridge	Chiharashiki City	2011/9/8	Sunny	31.2	Brownish black	Faint earth	Loamy	<30	320	410	<30	33	65	0.20		
3		Edokamigawa River	Daiichijamashiki Bridge	Chiharashiki City	2011/9/8	Sunny	30.0	Pony dark brown	Faint earth	Clay-loamy	<30	1,400	1,700	<30	12	11	0.19		
4		Hanazonogawa River	Kurabetsushi	Chiharashiki City	2011/9/9	Sunny	21.6	Dark brown	None	Sandy	<30	250	300	<30	110	120	0.21		
5		Hanazonogawa River	Isonarebashi Bridge	Chiharashiki City	2011/9/9	Sunny	27.2	Brownish black	Faint earth	Loamy	<30	1,200	1,300	<30	18	18	0.26		
6		Okitagawa River	Sakabashi Bridge	Fukagasaki City	2011/9/9	Cloudy	29.9	Dark olive brown	Faint earth	Sandy	<30	290	350	<30	40	78	0.14		
7		Okitagawa River	Sakabashi Bridge	Chiharashiki City	2011/9/9	Sunny	28.9	Brownish black	Faint earth	Loamy	<30	910	1,000	<30	17	18	0.21		
8		Shiotagawa River	Shinbashi Bridge	Chiharashiki City	2011/9/10	Clear	27.1	Dark brown	Faint earth	Loamy	<30	270	310	<30	18	24	0.20		
9		Sekinemaekawa River	Takinowakiseki Weir	Chiharashiki City	2011/9/10	Clear	27.0	Brownish black	Faint earth	Sandy	<30	500	580	<30	950	1,000	0.28		
10		Sekinegawa River	Hanedabashi Bridge	Fukagasaki City	2011/9/10	Clear	30.5	Dark brown	None	Sandy	<30	660	780	<30	<10	12	0.25		
11		Hananukigawa River	Torizonobashi Bridge	Fukagasaki City	2011/9/10	Sunny	26.0	Dark brown	None	Sandy	<30	430	500	<30	59	75	0.20		
12		Hananukigawa River	Shinhananukibashi Bridge	Fukagasaki City	2011/9/10	Sunny	30.8	Brownish black	Earth	Sandy	<30	660	850	<30	10	17	0.18		
13		Juogawa River	Kawajiriseki Weir	Hachibashi City	2011/9/10	Sunny	31.2	Dark brown	Earth	Sandy	<30	120	160	<30	16	19	0.10		
14		Miyatagawa River	Miyatagawabashi Bridge	Hachibashi City	2011/9/11	Sunny	25.2	Brownish black	None	Loamy	<30	160	190	<30	530	650	0.14		
15		Yamizogawa River	Mannenbashi Bridge	Shimomoto City	2011/9/11	Sunny	29.8	Brownish black	Earth	Loamy	<30	230	280	<30	<10	<10	0.20	*	
16		Oshigawa River	Oshigawabashi Bridge	Shimomoto City	2011/9/11	Sunny	31.3	Yellowish brown	Earth	Loamy	<30	100	120	<30	<10	<10	0.21	*	
17		Takikawa River	Koisobashi Bridge	Shimomoto City	2011/9/11	Sunny	32.6	Dark olive brown	None	Loamy	<30	92	110	<30	<10	<10	0.15	*	
18		Kujigawa River	Yamagata	Hachibashi City	2011/9/11	Sunny	26.9	Dark green yellow	None	Sandy	<30	73	85	<30	<15	28	0.21	*	
19		Asakawa River	Asakawabashi Bridge	Hachibashi City	2011/9/10	Sunny	28.6	Brownish black	Earth	Clay-loamy	<30	290	310	<30	<10	<10	0.17	*	
20		Tamagawa River	Shimotamagawabashi Bridge	Chiharashiki City	2011/9/8	Sunny	27.7	Brownish black	Earth	Clay-loamy	<30	270	290	<30	<10	<10	0.12		
21		Yamadagawa River	Azumabashi Bridge	Chiharashiki City	2011/9/10	Sunny	32.7	Brownish black	Earth	Clay-loamy	<30	340	410	<30	<10	<10	0.21	*	
22		Satogawa River	Shimochiabashi Bridge	Chiharashiki City	2011/9/10	Clear	31.8	Brownish black	Earth	Clay-loamy	<30	530	640	<30	<10	<10	0.21	*	
23		Kujigawa River	Sakakibashi Bridge	Chiharashiki City	2011/9/10	Sunny	31.8	Olive brown	Faint earth	Loamy	<30	310	340	<30	<10	<10	0.22	*	
24	Momiyagawa River	Shimizuabashi Bridge	Hachibashi City	2011/9/11	Sunny	25.9	Black	Earth	Loamy	<30	240	300	<30	17	17	0.14			
25	Shinkawa River System	Shinkawa River	Oebashi Bridge	Yokohama Village	2011/9/11	Sunny	27.0	Brownish black	Faint earth	Loamy	<30	590	730	<30	59	69	0.15		
26	Nakagawa River System	Ogawa River	Ogawabashi Bridge	Hachibashi City	2011/9/8	Sunny	23.0	Brownish black	Earth	Clay-loamy	<30	420	530	<30	<10	<10	0.13		
27		Nakagawa River	Noguchi	Chiharashiki City	2011/9/8	Sunny	29.1	Brownish black	Earth	Loamy	<30	800	980	<30	<10	11	0.10		
28		Shiokogawa River	Isozakibashi Bridge	Shimomoto City	2011/9/8	Sunny	29.4	—	—	—	—	—	—	<30	17	22	0.12	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil	
29		Fujigawa River	Kamiabashi Bridge	Mitoshi City	2011/9/12	Sunny	31.6	Brownish black	Earth	Loamy	<30	470	550	<30	25	20	0.09		
30		Nakagawa River	Shimokuni	Mitoshi City	2011/9/12	Sunny	32.7	Brownish black	Earth	Clay-loamy	<30	700	760	<30	<10	<10	0.10		
31		Hayatogawa River	Mutsumibashi Bridge	Chiharashiki City	2011/9/11	Sunny	28.6	Brownish black	Faint earth	Loamy	<30	500	550	<30	11	15	0.15		
32		Hayatogawa River	Water purification plant, down	Chiharashiki City	2011/9/11	Sunny	30.2	Dark brown	Faint earth	Loamy	<30	190	200	<30	<10	<10	0.12		
33		Sakuragawa River	Ekinankohashi Bridge	Mitoshi City	2011/9/12	Sunny	33.2	Dark brown	Earth	Loamy	<30	520	620	<30	<10	<10	0.08		
34		Nakagawa River	Katsubashi Bridge	Chiharashiki City	2011/9/11	Sunny	29.0	Dark brown	Faint earth	Sandy	<30	390	440	<30	<10	<10	0.14		
35		Nakamarugawa River	Yanagisawabashi Bridge	Chiharashiki City	2011/10/3	Sunny	21.2	Brownish black	Earth	Loamy	<30	200	240	<30	26	51	0.15		
36		Hinumamekawa River	Nagakabashi Bridge	Shimomoto City	2011/10/4	Clear	23.2	Dark olive brown	Earth	Loamy	<30	180	220	<30	<10	<10	0.16		
37		Hinumagawa River	Takahashi	Shimomoto City	2011/10/4	Clear	18.7	Brownish black	Earth	Loamy	<30	290	360	<30	18	34	0.14		
38		Kanseigawa River	Kanseibashi Bridge	Shimomoto City	2011/10/4	Sunny	16.2	Brownish black	Earth	Loamy	<30	870	1,000	<30	100	110	0.18		
39		Daiyagawa River	Oyabashi Bridge	Chiharashiki City	2011/10/4	Sunny	12.1	—	—	—	—	—	—	—	—	—	—	Due to debris, unable to enter to measure surrounding environments (soil/air dose)	
40		Ishikawagawa River	Inobashi Bridge	Mitoshi City	2011/9/12	Sunny	28.1	Brownish black	Earth	Loamy	<30	870	1,000	<30	130	130	0.12		
41		Hinumagawa River	Hinumabashi Bridge	Shimomoto City	2011/10/3	Sunny	21.4	Olive brown	None	Loamy	<30	850	990	—	—	—	0.18		
42	Hokotagawa River	Asahibashi Bridge	Hokotashi City	2011/9/10	Sunny	31.1	—	—	—	—	—	—	—	—	—	0.24	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil *1		
43	Tomogawa River	Shintomogawabashi Bridge	Hokotashi City	2011/9/10	Clear	29.8	Brownish black	Seaweed	Clay-loamy	<30	450	540	<30	17	21	0.34	*		
44	Taiyogawa River	Tazukabashi Bridge	Hokotashi City	2011/9/10	Sunny	31.4	Dark brown	None	Clay-loamy	<30	420	500	<30	<10	<10	0.31	*		
45	Takedagawa River	Uchijukaabashi Bridge	Kanagashi City	2011/10/3	Sunny	21.8	Dark brown	Earth	Sandy	<30	320	410	<30	<10	<10	0.18			
46	Yamadagawa River	Nioroshibashi Bridge	Kanagashi City	2011/10/3	Sunny	22.0	Dark yellow brown	Earth	Loamy	<30	250	300	<30	<10	13	0.16			
47	Kurakawa River	Kurakawabashi Bridge	Kanagashi City	2011/10/3	Sunny	22.1	Dark yellow brown	Earth	Loamy	<30	730	800	<30	<10	16	0.16			
48	Gantsugawa River	JA Yokohashi	Kanagashi City	2011/10/3	Sunny	23.3	Dark yellow brown	Earth	Loamy	<30	410	510	<30	<10	17	0.16			
49	Nagaregawa River	Suhoibashi Bridge	Chiharashiki City	2011/10/4	Sunny	22.0	—	—	—	—	—	—	—	—	—	0.08	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil		

Note: \* Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd. For points with \*1 in the Remarks column, a survey meter, Model 3 of Ludlum Measurement Inc., and for those with \*2, a Model 5000 of Health Physics Instruments was used.

Figures measured with either a Model 3 or a Model 5000 had a tendency to be a little higher than those measured with a TCS-172 or TCS-161 (about 1.6 times higher).

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

## River-2: 1st Surrounding Environment (River Terrace (Right Bank)) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Surrounding environment (soil/herb/air dose)								Remarks			
No	Water body	Point	Municipality				Right bank											
							Soil			Concentration of radioactive		Herb		Air dose (µSv/h)				
							Color	Odor	Property	Radioactive iodine	Radioactive cesium Cs-134 Cs-137	Radioactive iodine	Radioactive cesium Cs-134 Cs-137					
50	Kasumigaura Lake	Sonobegawa River	Sonobeshinbashi Bridge	Utsunomiya City	2011/9/10	Clear	28.5	Brownish black	Earth	Loamy	<30	360	430	<30	<10	<10	0.14	
51		Sannogawa River	Tokorobashi Bridge	Utsunomiya City	2011/9/9	Sunny	31.6	Brownish black	Earth	Loamy	<30	500	610	<30	13	17	0.16	
52		Koiesogawa River	Heiwabashi Bridge	Utsunomiya City	2011/9/9	Sunny	30.8	Brownish black	Earth	Loamy	<30	73	82	<30	83	83	0.20	
53		Kajinashigawa River	Kamishinokubashi Bridge	Utsunomiya City	2011/9/10	Clear	29.9	Brownish black	Earth	Loamy	<30	280	340	<30	23	39	0.15	
54		Hishikigawa River	Hishikibashi Bridge	Utsunomiya City	2011/9/10	Sunny	30.6	Brownish black	Earth	Loamy	<30	3,200	3,700	<30	33	37	0.18	
55		Ichinosegawa River	Kawanakabashi Bridge	Utsunomiya City	2011/9/10	Sunny	31.3	Brownish black	Earth	Loamy	<30	460	550	<30	<10	13	0.13	
56		Sakaigawa River	Sakaibashi Bridge (National Route 354)	Fuchinomiya City	2011/9/10	Sunny	30.5	Dark brown	Earth	Loamy	<30	290	360	<30	59	80	0.22	
57		Shinkawa River	Shintenbashi Bridge	Fuchinomiya City	2011/10/3	Sunny	18.4	Brown/olive brown	Earth	Sandy	<30	150	180	<30	15	10	0.20	
58		Sakuragawa River	Eiribashi Bridge	Utsunomiya City	2011/9/9	Sunny	26.8	Black	Earth	Loamy	<30	120	140	<30	<10	<10	0.11	
59		Bizengawa River	Bizengawabashi Bridge	Fuchinomiya City	2011/10/3	Clear	20.4	Dark olive brown	Earth	Loamy	<30	500	640	<30	16	16	0.18	
60		Hanamuraogawa River	Shinwabashi Bridge	Utsunomiya City	2011/10/3	Sunny	21.8	Dark olive brown	Earth	Loamy	<30	280	350	<30	87	100	0.25	
61		Seimeigawa River	Katsuhashi Bridge	Amamiya Town	2011/10/3	Clear	22.6	Brownish black	Earth	Loamy	<30	370	490	<30	20	31	0.30	
62		Onogawa River	Okuharaohashi Bridge	Utsunomiya City	2011/9/12	Sunny	28.9	Gray	None	Loamy	<30	560	700	<30	<10	<10	0.23	
63		Shintonegawa River	Shintonobashi Bridge	Maebashi City	2011/9/12	Cloudy	31.4	Brown/olive brown	None	Loamy	<30	250	320	<30	<10	<10	0.14	
64		Hitachitongawa River	Yorokoshigawa River	Hornouchibashi Bridge	Itakoshi City	2011/10/4	Clear	19.4	Dark olive brown	Earth	Loamy	<30	150	170	<30	<10	11	0.12
65		Maekawa River	Ayamebashi Bridge	Itakoshi City	2011/10/4	Sunny	20.0	—	—	—	—	—	—	—	—	0.10	Surrounding environment (soil/herb/air dose): Unable to collect soil due to no exposed soil	
66	Kinugawa River	Kinugawa River	Kawashimabashi Bridge	Itakoshi City	2011/10/8	Sunny	20.8	Brownish black	Earth	Loamy	<30	90	110	<30	<10	<10	0.16	*2
67		Kinugawa River	Takishitabashi Bridge	Moroyasu City	2011/10/7	Clear	22.6	Brownish black	Faint earth	Sandy	<30	890	1,000	<30	52	62	0.17	
68		Tagawa River	Tagawabashi Bridge	Itakoshi City	2011/10/8	Sunny	20.0	Brownish black	Earth	Loamy	<30	110	150	<30	<10	<10	0.15	*2
69	Kokaigawa River	Hachikenborigawa River	Ishiarabashi Bridge	Itosashi City	2011/10/7	Sunny	21.2	Dark brown	Earth	Loamy	<30	480	570	<30	<10	<10	0.12	
70		Gogyogawa River	Shimookabashi Bridge	Itakoshi City	2011/8/30	Clear	26.6	Brownish black	None	Clay-loamy	<30	88	120	<30	22	25	0.05	
71		Daiyagawa River	Nishihokanouchibashi Bridge	Itakoshi City	2011/8/30	Sunny	29.8	Brownish black	Faint earth	Loamy	<30	300	330	<30	33	35	0.05	
72		Kokaigawa River	Kurokobashi Bridge	Itakoshi City	2011/8/30	Sunny	30.5	Dark brown	Faint earth	Loamy	<30	180	220	<30	61	72	0.06	
73		Itokurigawa River	Jukyubashi Bridge	Itakoshi City	2011/8/30	Sunny	30.0	Brownish black	Faint earth	Loamy	<30	94	110	<30	140	150	0.05	
74		Nakadorigawa River	Itamishinbashi Bridge	Itakoshi City	2011/10/6	Sunny	22.8	Brownish black	Earth	Clay-loamy	<30	630	630	<30	<10	<10	0.18	
75		Kokaigawa River	Fumimabashi Bridge	Itakoshi City	2011/10/6	Sunny	23.6	Brownish black	Earth	Clay-loamy	<30	650	780	<30	<10	<10	0.18	
76		Yatagawa River	Maruyamabashi Bridge	Itakoshi City	2011/10/6	Sunny	22.0	Brownish black	Earth	Clay-loamy	<30	1,100	1,300	<30	17	29	0.18	
77		Nishiyatagawa River	Sakaimatubashi Bridge	Itakoshi City	2011/10/6	Cloudy	18.8	Brownish black	Earth	Clay-loamy	<30	1,100	1,200	<30	27	37	0.17	
78		Inarigawa River	Ogukibashi Bridge	Itakoshi City	2011/10/6	Sunny	22.8	Brownish black	Earth	Clay-loamy	<30	2,000	2,300	<30	69	82	0.23	
79		Yatagawa River	Ushikunuma Lake exit	Fogakoshi City	2011/10/6	Sunny	23.6	Dark olive brown	Earth	Loamy	<30	180	240	<30	<10	16	0.12	
80	Tonegawa River	Mukaborigawa River	Isagoibashi Bridge	Kogashi City	2011/9/11	Sunny	29.0	Brown	Earth	Clay-loamy	<30	87	130	<30	<10	<10	0.05	
81		Isokawa River	Mizuumibashi Bridge	Kogashi City	2011/10/6	Cloudy	20.3	Dark brown	Earth	Loamy	<30	56	64	<30	11	21	0.08	
82		Shimonosuiro Channel	Kusakabashi Bridge	Kogashi City	2011/9/11	Sunny	31.2	Brownish black	Earth	Clay-loamy	<30	230	340	<30	<10	<10	0.05	
83		Miyatogawa River	Miyatogawabashi Bridge	Amamiya Town	2011/10/6	Sunny	23.8	Dark brown	Earth	Loamy	<30	120	140	<30	<10	<10	0.08	
84		Okawa River	Owadabashi Bridge	Kogashi City	2011/10/8	Sunny	17.8	Black	Earth	Clay-loamy	<30	200	260	<30	<10	<10	0.17	*2
85		Kuguidogawa River	Katashibashi Bridge	Bandoshi City	2011/10/6	Sunny	23.5	Brownish black	Earth	Loamy	<30	98	110	<30	<10	<10	0.09	
86		Nishiniregawa River	Ozakibashi Bridge	Kogashi City	2011/10/8	Sunny	20.2	Dark olive brown	Earth	Loamy	<30	100	130	<30	11	13	0.14	*2
87		Inumagawa River	Umarabashi Bridge	Bandoshi City	2011/10/6	Clear	24.6	Dark brown	Earth	Loamy	<30	160	180	<30	<10	<10	0.08	
88		Inumagawa River	Center of Suganuma Lake	Itakoshi City	2011/10/7	Clear	24.2	Brown	Earth	Loamy	<30	100	100	<30	19	24	0.10	
89		Higashiniregawa River	Toyokambashi Bridge	Itakoshi City	2011/10/7	Clear	21.8	Brownish black	Earth	Loamy	<30	150	170	<30	<10	<10	0.11	
90		Watarasagawa River	Mikumibashi Bridge	Kogashi City	2011/9/11	Sunny	29.2	Dark brown	Earth	Clay-loamy	<30	98	110	<30	31	66	0.06	
91		Tonegawa River	Kurihashi Bridge	Kogashi City	2011/9/11	Sunny	29.5	Brownish black	Earth	Clay-loamy	<30	120	140	<30	12	17	0.07	
92		Tonegawa River	Fukawa	Itosashi Town	2011/9/12	Sunny	24.2	Brownish black	None	Clay-loamy	<30	250	280	<30	35	42	0.26	
93	Tonegawa River	Sawara	Maebashi City	2011/9/12	Sunny	31.4	Brown/olive brown	None	Loamy	<30	510	520	<30	47	56	0.14		

Note: \*Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd. For points with \*1 in the Remarks column, a survey meter, Model 3 of Ludlum Measurement Inc., and for those with \*2, a Model 5000 of Health Physics Instruments was used.

Figures measured with either a Model 3 or a Model 5000 had a tendency to be a little higher than those measured with a TCS-172 or TCS-161 (about 1.6 times higher).

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

## Lake and Headwater: 1st Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality							Radioactive material concentrations (Bq/L)			Remarks
No.	Water body	Point	Municipality					Water temperature	Sampling depth m	Color	Odor	Secchi disk depth m	Electrical conductivity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium	
													Cs-134	Cs-137				
94	Hinuma Lake	Hiroura	—	2011/9/13	Sunny	27.8	2.8	27.6	0.5	Dark grayish yellow green	None	0.5	136.1	19	16	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.2	1.8	—	—	—	134.9	28	24	<1	<1	<1
95	Hinuma Lake	Miyamae	—	2011/9/13	Sunny	25.8	3.4	28.1	0.5	Dark grayish yellow green	None	0.5	120.2	9	6.7	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.9	2.4	—	—	—	120.9	8	6.8	<1	<1	<1
96	Hinuma Lake	Oyazawa	—	2011/9/13	Sunny	27.4	2.4	28.0	0.5	Dark grayish yellow green	Faint mold	0.6	44.1	8	7.9	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.7	1.4	—	—	—	41.2	9	9.9	<1	<1	<1
97	Kasumigaura Lake	Offshore of Tamatsukuri	—	2011/9/12	Clear	28.3	6.7	29.2	0.5	Yellow green	None	0.8	27.1	8	12	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.2	5.7	—	—	—	24.9	23	23	<1	<1	<1
98	Kasumigaura Lake	Offshore of Kakeuma	—	2011/9/12	Sunny	30.0	2.0	28.6	0.5	Yellow green	None	0.7	27.1	20	17	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.8	1.0	—	—	—	26.7	20	17	<1	<1	<1
99	Kasumigaura Lake	Center of the lake	—	2011/9/12	Clear	29.2	6.2	28.8	0.5	Yellow green	None	0.9	29.0	9	9.8	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.5	5.2	—	—	—	28.5	14	13	<1	<1	<1
100	Kasumigaura Lake	Offshore of Aso	—	2011/9/12	Sunny	30.6	2.3	29.0	0.5	Yellow green	None	0.9	30.4	11	10	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	28.6	1.3	—	—	—	29.8	14	10	<1	<1	<1
101	Kitaura Lake	Offshore of Kamaya	—	2011/9/13	Clear	27.8	6.7	27.9	0.5	Yellow green	None	1.2	32.2	11	10	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	27.6	5.7	—	—	—	31.7	17	13	<1	<1	<1
102	Kitaura Lake	Jingubashi Bridge	—	2011/9/13	Clear	28.6	2.5	28.4	0.5	Yellow green	None	0.6	38.4	26	24	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	28.0	1.5	—	—	—	38.9	32	24	<1	<1	<1
103	Hitachitonegawa River	Sotonasakaura Lake	—	2011/9/13	Sunny	29.4	2.6	28.6	0.5	Yellow green	None	1.0	42.0	17	14	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	28.3	1.6	—	—	—	40.5	21	16	<1	<1	<1
104	Hitachitonegawa River	Ikisu	—	2011/9/13	Clear	30.2	4.9	28.6	0.5	Yellow green	None	1.0	42.7	11	10	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	28.1	3.9	—	—	—	42.8	15	18	<1	<1	<1
105	Ushikunuma Lake	Center of Ushikunuma Lake	—	2011/10/5	Cloudy	17.6	1.8	19.2	0.5	Dark grayish yellow green	None	0.4	19.4	30	27	<1	<1	<1
		1 m from the bottom	—	—	—	—	—	18.9	0.8	—	—	—	19.0	27	23	<1	<1	<1

Note: Sampling points are listed from north to south.

## Lake and Headwater: 1st Sediment Monitoring Results

No.	Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	Sediment																Concentration of radioactive material			Remarks	
	Water body	Point	Municipality					Mud temperature	Mud sampling	Color	Odor	General items									Mud content	Soil particle	Property	Radioactive iodine	Radioactive cesium			
												Coarse	Medium	Fine	Coarse	Medium	Fine sand	Silt	Clay	Cs-134					Cs-137			
94	Hinuma Lake	Hiroura	—	2011/9/13	Sunny	27.8	2.8	26.9	10	Olive black	None	—	—	0.4	0.3	1.2	9.4	51.0	37.7	36.3	2.594	Silt	<30	130	190			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
95	Hinuma Lake	Miyamae	—	2011/9/13	Sunny	25.8	3.4	26.7	10	Black	None	—	—	—	—	1.0	5.7	52.4	40.9	23.5	2.586	Silt	<30	<20	37			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
96	Hinuma Lake	Oyazawa	—	2011/9/13	Sunny	27.4	2.4	25.2	10	Black	None	—	—	—	—	0.6	5.8	64.0	29.6	29.2	2.594	Silt	<30	280	390			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
97	Kasumigaura Lake	Offshore of Tamatsukuri	—	2011/9/12	Clear	28.3	6.7	26.4	12	Olive black	None	—	—	—	—	0.2	2.1	33.0	64.7	18.3	2.566	Silt	<30	130	200			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
98	Kasumigaura Lake	Offshore of Kakenuma	—	2011/9/12	Sunny	30.0	2.0	27.4	2	Olive black	None	—	—	—	—	0.5	54.6	43.3	—	1.6	79.3	2.712	Sand	<30	160	180		
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
99	Kasumigaura Lake	Center of the lake	—	2011/9/12	Clear	29.2	6.2	24.8	12	Olive black	None	—	—	—	—	0.2	0.6	39.8	59.4	16.6	2.552	Silt	<30	81	140			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
100	Kasumigaura Lake	Offshore of Aso	—	2011/9/12	Sunny	30.6	2.3	28.2	3	Olive black	None	—	—	—	—	0.2	2.9	95.0	—	1.9	76.7	2.709	Sand	<30	150	180		
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
101	Kitaura Lake	Offshore of Kamaya	—	2011/9/13	Clear	27.8	6.7	25.8	10	Olive black	None	—	—	—	—	0.2	1.0	43.0	55.8	15.6	2.548	Silt	<30	<40	90			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
102	Kitaura Lake	Jingubashi Bridge	—	2011/9/13	Clear	28.6	2.5	28.2	2	Olive black	None	—	—	1.9	3.4	20.6	54.4	11.7	8.0	70.2	2.678	Sand with silt	<30	100	120			
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
103	Hitachitonegawa River	Sotonasakaura Lake	—	2011/9/13	Sunny	29.4	2.6	28.4	2	Olive black	None	—	—	—	—	0.2	7.7	73.6	10.8	7.7	74.0	2.686	Sand with silt	<30	89	95		
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
104	Hitachitonegawa River	Ikisu	—	2011/9/13	Clear	30.2	4.9	28.3	3	Olive black	None	—	—	—	—	0.2	2.0	13.6	81.8	—	2.4	73.7	2.708	Sand	<30	140	150	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
105	Ushikumma Lake	Center of Ushikumma Lake	—	2011/10/5	Cloudy	17.6	1.8	20.8	10	Olive black	None	—	—	—	—	0.4	1.0	4.3	53.6	40.7	19.9	2.572	Silt	<30	850	990		
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Note: Sampling points are listed from north to south.

## Lake and Headwater: 1st Surrounding Environment (Lake Shore) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature ℃	Surrounding environment (soil/herb/air dose)										Remarks
							Soil			Herb			Air dose ( $\mu$ Sv/h)				
							General items			Concentration of radioactive material (Bq/kg)				Concentration of radioactive material (Bq/kg)			
No.	Water body	Point	Municipality	Color	Odor	Property	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137					
94	Hinuma Lake	Hiroura	—	2011/9/13	Sunny	27.8	Dark brown	Earth	Sandy	<30	630	770	<30	67	79	0.15	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
95	Hinuma Lake	Miyamae	—	2011/9/13	Sunny	25.8	Dark grayish yellow	Earth	Sandy	<30	480	590	—	—	—	0.08	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
96	Hinuma Lake	Oyazawa	—	2011/9/13	Sunny	27.4	—	—	—	—	—	—	—	—	—	—	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
97	Kasumigaura Lake	Offshore of Tamatsukuri	—	2011/9/12	Clear	28.3	Olive black	None	Sandy	<30	22	22	<30	<10	<10	0.12	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
98	Kasumigaura Lake	Offshore of Kakeuma	—	2011/9/12	Sunny	30.0	Olive brown	None	Sandy	<30	110	140	<30	20	29	0.15	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
99	Kasumigaura Lake	Center of the lake	—	2011/9/12	Clear	29.2	—	—	—	—	—	—	—	—	—	—	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
100	Kasumigaura Lake	Offshore of Aso	—	2011/9/12	Sunny	30.6	Yellowish brown	None	Sandy	<30	76	83	<30	31	27	0.14	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
101	Kitaura Lake	Offshore of Kamaya	—	2011/9/13	Clear	27.8	Brownish black	None	Sandy	<30	140	160	<30	49	53	0.13	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
102	Kitaura Lake	Jingubashi Bridge	—	2011/9/13	Clear	28.6	Dull yellowish brown	None	Sandy	<30	240	300	<30	<10	<10	0.07	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
103	Hitachitonegawa River	Sotonasakaura Lake	—	2011/9/13	Sunny	29.4	Black	None	Loamy	<30	130	150	<30	<10	<10	0.10	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
104	Hitachitonegawa River	Ikisu	—	2011/9/13	Clear	30.2	Brownish black	None	Loamy	<30	130	150	<30	<10	<10	0.09	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
105	Ushikunuma Lake	Center of Ushikunuma Lake	—	2011/10/5	Cloudy	17.6	Brownish black	Earth	Clay-loamy	<30	1,400	1,600	<30	<10	16	0.22	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Note: Sampling points are listed from north to south.

## Coast and Bathing Area: 1st Water Quality Monitoring Results

No.	Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Remarks
	Water body	Point	Municipality	General items							Radioactive material concentrations (Bq/L)								
				Water temperature					Sampling depth m	Color	Odor	Secchi disk depth m	Salinity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137	
106	Offshore of Satonegawa River Estuary		--	2011/10/3	Clear	14.2	13.7	20.0	0.5	Yellow green	None	4.1	32.4	1	1.4	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	19.8	12.7	--	--	--	33.1	4	3.2	<1	<1	<1	
107	Offshore of Okitagawa River Estuary		--	2011/10/3	Clear	15.6	13.0	20.0	0.5	Yellow green	None	8.2	30.1	<1	0.7	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.2	12.0	--	--	--	32.5	<1	1.3	<1	<1	<1	
108	Near Tanko mine outlet/Neighboring sea area of Joban	Offshore of Shiotagawa	--	2011/10/3	Clear	15.8	8.5	20.0	0.5	Yellow green	None	8.5	31.6	<1	0.3	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.3	7.5	--	--	--	32.0	<1	0.6	<1	<1	<1	
109	Offshore of Sekinegawa River Estuary		--	2011/10/3	Clear	16.8	15.3	19.9	0.5	Yellow green	None	7.8	31.9	<1	0.7	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.1	14.3	--	--	--	32.4	<1	0.3	<1	<1	<1	
110	Near Hananukagawa River estuary/Neighboring sea area of Joban	Offshore of	--	2011/10/3	Clear	19.4	12.7	19.9	0.5	Yellow green	None	7.6	31.4	1	1.1	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.1	11.7	--	--	--	32.3	2	1.1	<1	<1	<1	
111	Neighboring sea area of Joban	Offshore of Kawajiri Port	--	2011/10/3	Sunny	17.0	11.7	19.8	0.5	Yellow green	None	5.3	31.6	1	1.1	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.3	10.7	--	--	--	32.6	3	2.9	<1	<1	<1	
112	Offshore of Miyatagawa River Estuary		--	2011/10/3	Sunny	17.3	10.7	20.1	0.5	Yellow green	None	5.8	31.8	1	1.2	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.2	9.7	--	--	--	32.1	4	2.4	<1	<1	<1	
113	Near Izumigawa River estuary/Neighboring sea area of Joban	Offshore of	--	2011/10/3	Sunny	17.7	4.0	20.4	0.5	Yellow green	None	4.0	31.9	2	1.6	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.5	3.0	--	--	--	31.9	3	2.2	<1	<1	<1	
114	Offshore of Momiyagawa River/Kujigawa River Estuaries		--	2011/10/4	Clear	13.5	10.7	19.5	0.5	Green	None	4.4	31.0	2	1.7	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.0	9.7	--	--	--	32.4	1	1.6	<1	<1	<1	
115	Neighboring water body of Ken-o	Offshore of Tokai	--	2011/10/3	Clear	17.6	12.8	21.1	0.5	Green	None	5.0	32.1	1	1.9	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.3	11.8	--	--	--	32.3	1	1.3	<1	<1	<1	
116	Neighboring water body of Ken-o	Offshore of Nakagawa River	--	2011/10/4	Clear	16.9	4.8	17.6	0.5	Green	None	2.8	22.3	4	6.2	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	19.7	3.8	--	--	--	32.1	6	3.0	<1	<1	<1	
117	Offshore of Tonegawa River Estuary		--	2011/10/6	Cloudy	16.6	8.3	19.6	0.5	Grayish yellow green	None	1.0	3.7	15	16	<1	<1	<1	
	1 m from the bottom		--	--	--	--	--	20.2	7.3	--	--	--	33.2	42	38	<1	<1	<1	
118	Isoharafutatsushima	Kitabarakishi	--	2011/9/8	Sunny	24.2	0.8	23.0	0.0	Grayish blue green	None	--	--	7	3.4	<1	<1	<1	
119	Takahagi	Takahagishi	--	2011/9/9	Sunny	25.5	0.6	23.2	0.0	Dark green	None	--	--	5	2.8	<1	<1	<1	
120	Neighboring sea area of Joban	Kawajiri	Hitachishi City	2011/9/10	Clear	32.6	0.3	24.0	0.0	Grayish blue green	None	--	--	7	2.6	<1	<1	<1	
121		Ouse	Hitachishi City	2011/9/11	Sunny	26.4	1.2	24.2	0.0	Grayish yellow green	None	--	--	21	1.5	<1	<1	<1	
122		Kujihama Beach	Hitachishi City	2011/9/11	Sunny	25.4	1.1	24.4	0.0	Yellow green	None	--	--	13	6.8	<1	<1	<1	
123		Ajigaura	Hitachinakashi	2011/10/3	Sunny	20.8	1.0	21.3	0.0	Dark green	None	--	--	5	2.8	<1	<1	<1	
124		Ubanofutokoro Marine Pool	Hitachinakashi	2011/10/3	Sunny	20.8	0.8	22.2	0.0	Dark grayish yellow green	None	--	--	7	5.4	<1	<1	<1	
125	Neighboring water body of Ken-o	Oarai	Oaraimachi	2011/10/3	Sunny	20.0	0.6	20.8	0.0	Dark blue green	None	--	--	3	2.7	<1	<1	<1	
126		Otakekaiganhokota	Hokotashi City	2011/9/10	Sunny	28.9	1.1	25.3	0.0	Dark green	None	--	--	4	3.6	<1	<1	<1	
127		Hirai	Kashimashi	2011/10/4	Sunny	21.6	1.0	21.0	0.0	Blue	None	--	--	4	2.4	<1	<1	<1	
128	Kashimanada	Hazaki	Kamisushi City	2011/10/4	Sunny	17.6	1.0	20.6	0.0	Green	None	--	--	11	6.9	<1	<1	<1	

Note: Sampling points are listed from north to south.

## Coast and Bathing Area: 1st Sediment Monitoring Results

No.	Sampling point				Weather	Air temperature °C	Full depth m	Sediment																	Remarks			
	Water body	Point	Municipality	Sampling date				Mud temperature	Mud samplin	Color	Odor	General items										Concentration of radioactive						
												Mechanical composition										Mud content	Soil particle	Property		Radioactive iodine	Radioactive cesium Cs-134	Cs-137
												Coarse	Medi	Fine	Coars	Medium	Fine	Silt	Clay	Coars	Medium							
106	Offshore of Satonegawa River Estuary			2011/10/3	Clear	14.2	13.7	19.6	5	Grayish olive	None		1.5	4.9	13.9	60.9	16.8		2.0	78.2	2.711	Sand	<30	32	48			
	1 m from the bottom																											
107	Offshore of Okitagawa River Estuary			2011/10/3	Clear	15.6	13.0	19.6	5	Olive black	None			0.1	0.5	23.5	68.7		7.2	84.5	2.695	Sand	<30	76	97			
	1 m from the bottom																											
108	Near Tanko mine outlet/Neighboring sea area of Joban	Offshore		2011/10/3	Clear	15.8	8.5	19.8	8	Grayish olive	None				0.3	33.1	64.1		2.5	84.1	2.707	Sand	<30	<10	16			
	1 m from the bottom																											
109	Offshore of Sekinegawa River Estuary			2011/10/3	Clear	16.8	15.3	19.8	5	Grayish olive	None			0.1	0.5	8.5	85.7		5.2	80.8	2.702	Sand	<30	23	38			
	1 m from the bottom																											
110	Near Hananukagawa River estuary/Neighboring sea area of Joban			2011/10/3	Clear	19.4	12.7	19.9	5	Grayish olive	None			0.7	1.4	14.0	79.0		4.9	80.3	2.704	Sand	<30	22	34			
	1 m from the bottom																											
111	Neighboring sea area of Joban	Offshore of Kawajiri		2011/10/3	Sunny	17.0	11.7	19.9	8	Dark olive	None				0.5	50.3	47.1		2.1	83.4	2.707	Sand	<30	21	35			
	1 m from the bottom																											
112	Offshore of Miyatagawa River Estuary			2011/10/3	Sunny	17.3	10.7	19.9	3	Dark olive	None					0.9	87.9	7.5	3.7	77.4	2.694	Sand	<30	31	38			
	1 m from the bottom																											
113	Near Izumigawa River estuary/Neighboring sea area of Joban			2011/10/3	Sunny	17.7	4.0	20.0	3	Dark olive	None			0.1	0.1	13.3	83.2		3.3	80.5	2.705	Sand	<30	15	29			
	1 m from the bottom																											
114	Offshore of Momiya-gawa River/Kujigawa River Estuaries			2011/10/4	Clear	13.5	10.7	19.9	8	Dark olive	Faint sewerage					16.3	77.3		6.4	75.4	2.700	Sand with silt	<30	75	80			
	1 m from the bottom																											
115	Neighboring water body of Ken-o	Offshore of Tokai		2011/10/3	Clear	17.6	12.8	20.3	3	Dark olive	None			0.3	0.1	2.1	86.9	7.0	3.6	80.6	2.692	Sand	<30	18	27			
	1 m from the bottom																											
116	Neighboring water body of Ken-o	Offshore of		2011/10/4	Clear	16.9	4.8	19.6	8	Olive black	None			0.1	1.0	66.6	30.0		2.3	88.0	2.705	Sand	<30	<10	10			
	1 m from the bottom																											
117	Offshore of Tonegawa River Estuary			2011/10/6	Cloudy	16.6	8.3	19.6	1	Olive black	None			0.2	0.3	1.9	83.6	8.7	5.3	81.5	2.682	Sand	<30	<10	21			
	1 m from the bottom																											
118	Neighboring sea area of Joban	Isoharafutatsushima	Kitaibarakishi	2011/9/8	Sunny	24.2	0.8	23.2	10	Olive black	None		9.1	18.6	14.7	41.4	15.3		0.9	87.7	2.711	Sand with	<30	26	39			
		Takahagi	Takahagishi	2011/9/9	Sunny	25.5	0.6	23.5	5	Olive brown	None			0.1	1.8	70.3	27.3		0.5	83.3	2.712	Sand	<30	12	16			
Kawajiri		Hitachishi	2011/9/10	Clear	32.6	0.3	25.0	10	Grayish olive	None				13.2	50.4	35.6		0.8	81.7	2.709	Sand	<30	25	34				
Ouse		Hitachishi	2011/9/11	Sunny	26.4	1.2	26.9	3	Olive black	None		21.7	23.5	26.3	22.8	4.7		1.0	91.9	2.705	Sand	<30	<10	11				
Kujihama Beach		Hitachishi	2011/9/11	Sunny	25.4	1.1	25.6	5	Dark olive brown	None			4.3	13.3	51.1	30.8		0.5	85.5	2.708	Sand	<30	<10	15				
Ajigaura		Hitachinakas	2011/10/3	Sunny	20.8	1.0	20.9	5	Olive brown	None				6.1	62.1	29.8		2.0	90.6	2.701	Sand	<30	<10	<10				
Ubanofutokoro Marine Pool		Hitachinakas	2011/10/3	Sunny	20.8	0.8	20.7	10	Dark olive brown	None		0.5	1.6	10.6	83.9	0.6		2.8	91.0	2.704	Sand	<30	10	12				
Oarai		Oaraimachi	2011/10/3	Sunny	20.0	0.6	20.1	10	Dark olive brown	None		13.7	44.7	15.8	22.6	0.6		2.6	92.4	2.707	Sand with	<30	<10	21				
Otakekaiganhokota		Hokotashi	2011/9/10	Sunny	28.9	1.1	25.6	10	Grayish olive	None			0.3	0.3	76.6	22.1		0.7	80.9	2.710	Sand	<30	15	18				
127		Kashimanada	Hirai	Kashimashi	2011/10/4	Sunny	21.6	1.0	21.8	8	Grayish olive	None			0.2	0.0	2.1	96.5		1.2	80.6	2.706	Sand	<30	22	34		
	Hazaki		Kamisushi	2011/10/4	Sunny	17.6	1.0	20.1	8	Grayish olive	None			0.5	0.5	3.7	92.6		2.7	84.4	2.707	Sand	<30	24	20			

Note: Sampling points are listed from north to south.

## Coast and Bathing Area: 1st Surrounding Environment (Beach) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Surrounding environment (soil/herb/air dose)									Remarks	
							Soil			Herb			Air dose ( $\mu$ Sv/h)				
							General items			Concentration of radioactive material							
No.	Water body	Point	Municipality	Color	Odor	Property	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137					
Sea	Offshore of Satonegawa River Estuary	1 m from the bottom	--	2011/10/3	Clear	14.2	--	--	--	--	--	--	--	--	--	--	
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Offshore of Okitagawa River Estuary	1 m from the bottom	--	2011/10/3	Clear	15.6	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Near Tanko mine outlet/Neighboring sea area of Joban Offshore of Shiotagawa River	1 m from the bottom	--	2011/10/3	Clear	15.8	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Offshore of Sekinegawa River Estuary	1 m from the bottom	--	2011/10/3	Clear	16.8	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Near Hananukagawa River estuary/Neighboring sea area of Joban Offshore of	1 m from the bottom	--	2011/10/3	Clear	19.4	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Neighboring sea area of Joban Offshore of Kawajiri Port	1 m from the bottom	--	2011/10/3	Sunny	17.0	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Offshore of Miyatagawa River Estuary	1 m from the bottom	--	2011/10/3	Sunny	17.3	--	--	--	--	--	--	--	--	--	--	--
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Near Izumigawa River estuary/Neighboring sea area of Joban Offshore of	1 m from the bottom	--	2011/10/3	Sunny	17.7	--	--	--	--	--	--	--	--	--	--	--	
	1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Offshore of Momiyagawa River/Kujigawa River Estuaries	1 m from the bottom	--	2011/10/4	Clear	13.5	--	--	--	--	--	--	--	--	--	--	--	
	1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Neighboring water body of Ken-o Offshore of Tokai	1 m from the bottom	--	2011/10/3	Clear	17.6	--	--	--	--	--	--	--	--	--	--	--	
	1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Neighboring water body of Ken-o Offshore of Nakagawa River	1 m from the bottom	--	2011/10/4	Clear	16.9	--	--	--	--	--	--	--	--	--	--	--	
	1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Offshore of Tonegawa River Estuary	1 m from the bottom	--	2011/10/6	Cloudy	16.6	--	--	--	--	--	--	--	--	--	--	--	
	1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
118	Bathing	Isoharafutatsushima	Kitabarakishi City	2011/9/8	Sunny	24.2	Olive black	None	Sandy	<30	21	39	<30	<10	15	0.09	
119		Takahagi	Takahagishi City	2011/9/9	Sunny	25.5	Olive brown	None	Sandy	<30	660	820	<30	42	52	0.32	
120		Kawajiri	Hitachishi City	2011/9/10	Clear	32.6	Brownish gray	None	Sandy	<30	26	33	--	--	--	0.06	
121		Ouse	Hitachishi City	2011/9/11	Sunny	26.4	Gray	None	Sandy	<30	130	170	--	--	--	0.09	
122		Kujihama Beach	Hitachishi City	2011/9/11	Sunny	25.4	Gray	None	Sandy	<30	25	27	<30	650	730	0.08	
123		Ajigaura	Hitachinakashi City	2011/10/3	Sunny	20.8	Dark grayish yellow	None	Sandy	<30	19	22	--	--	--	0.07	
124		Ubanofutokoro Marine Pool	Hitachinakashi City	2011/10/3	Sunny	20.8	Olive brown	None	Sandy	<30	<10	12	--	--	--	0.07	
125		Oarai	Oaraimachi Town	2011/10/3	Sunny	20.0	Dark grayish yellow	None	Sandy	<30	38	57	--	--	--	0.10	
126		Otakekaiganhokota	Hokotashi City	2011/9/10	Sunny	28.9	Light gray	None	Sandy	<30	12	28	--	--	--	0.18	
127		Hirai	Kashimashi City	2011/10/4	Sunny	21.6	Grayish olive	None	Sandy	<30	11	25	--	--	--	0.07	
128		Hazaki	Kamisushi City	2011/10/4	Sunny	17.6	Grayish olive	None	Sandy	<30	10	22	--	--	--	0.06	

Note: \* Air dose was measured with a survey meter, TCS-172 or TCS-161 of Hitachi-Aloka Medical, Ltd. For points with \*1 in the Remarks column, a survey meter, Model 3 of Ludlum Measurement Inc., and for those with \*2, a Model 5000 of Health Physics Instruments was used.

Figures measured with either a Model 3 or a Model 5000 had a tendency to be a little higher than those measured with a TCS-172 or TCS-161 (about 1.6 times higher).

• Sampling points are listed from north to south.



## River: 2nd Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Remarks			
No.	Water body	Point	Municipality					General items						Radioactive material concentrations (Bq/L)							
				Water temperature	Sampling depth	Color	Odor	Transparency	Electrical conductivity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137							
1	Taga River System	Satonegawa	Yamagoyabashi Bridge	Kitabarankishi City	2012/2/25	Rain	4.0	0.40	6.1	0.0	Greenish yellow green	None	15	13.8	30	48	<1	<1	<1		
2		Satonegawa	Murayamabashi Bridge	Kitabarankishi City	2012/2/25	Rain	2.8	0.50	4.8	0.0	Colorless transparent	None	100 or	21.6	2	2.5	<1	<1	<1		
4		Hanazonogawa	Kurabeishi	Kitabarankishi City	2012/2/25	Rain	2.2	0.30	2.6	0.0	Colorless transparent	None	100 or	6.7	<1	0.6	<1	<1	<1		
5		Hanazonogawa	Isonarebashi Bridge	Kitabarankishi City	2012/2/25	Rain	2.6	0.40	4.4	0.0	Colorless transparent	None	100 or	38.1	3	3.7	<1	<1	<1		
6		Okitagawa	Sakaebashi Bridge	Takahagishi City	2012/2/23	Cloudy	10.1	0.50	5.4	0.0	Pale yellow green	None	55	6.3	12	6.7	<1	<1	<1		
7		Okitagawa	Sakaebashi Bridge	Kitabarankishi City	2012/2/24	Sunny	8.9	0.60	7.2	0.0	Colorless transparent	None	100 or	12.3	3	3.0	<1	<1	<1		
12		Hananukigawa	Shinhananukibashi Bridge	Takahagishi City	2012/2/23	Cloudy	11.0	0.50	8.4	0.0	Greenish yellow green	None	20	14.3	20	18	<1	<1	<1		
18	Kujigawa River System	Kujigawa River	Yamagata	Hirachiomiyashi City	2012/2/23	Rain	4.6	0.50	4.9	0.0	Colorless transparent	None	100 or	13.7	<1	0.8	<1	<1	<1		
23		Kujigawa River	Sakakibashi Bridge	Shiohara City (Ishikawa Pref.)	2012/2/25	Rain	4.2	0.50	6.1	0.0	Yellow green	None	42	15.5	8	7.6	<1	<1	<1		
27	Nakagawa River System	Nakagawa	Noguchi	Shiohara City (Ishikawa Pref.)	2012/2/23	Rain	5.3	0.40	7.1	0.0	Colorless transparent	None	100 or	18.7	1	1.3	<1	<1	<1		
30		Nakagawa	Shimokuni	Mitoshi City	2012/2/25	Rain	4.0	0.30	8.0	0.0	Yellow green	None	41	19.7	4	4.1	<1	<1	<1		
34		Nakagawa	Katsutabashi Bridge	Mitoshi City (Hiroshima Pref.)	2012/2/25	Rain	4.2	0.50	8.4	0.0	Yellow green	None	52	432.0	6	6.5	<1	<1	<1		
35		Nakamarugawa	Yanagisawabashi Bridge	Hitachinaka City	2012/2/20	Clear	9.6	0.30	8.5	0.0	Dark greenish yellow green	None	55	195.1	5	6.1	<1	<1	<1		
41		Hinumagawa	Hinumagawa	Hinumabashi Bridge	Shiohara City (Ishikawa Pref.)	2012/2/24	Sunny	11.7	0.60	8.4	0.0	Yellow green	None	34	2100.0	5	5.3	<1	<1	<1	
42	Tonogawa River System	Kitaura Lake	Hokotagawa	Asahibashi Bridge	Hokotashi City	2012/2/20	Clear	9.1	0.90	9.9	0.0	Greenish brown	Faint sewage	72	41.3	9	8.0	<1	<1	<1	
43			Tomogawa	Shintomogawabashi Bridge	Hokotashi City	2012/2/20	Clear	9.5	0.30	10.6	0.0	Greenish brown	Faint night soil	100 or	33.9	6	4.8	<1	<1	<1	
51		Kasumigaura Lake	Sannogawa	Tokorobashi Bridge	Asakashi City (Ishikawa Pref.)	2012/2/20	Clear	11.4	0.60	9.2	0.0	Dark greenish yellow green	Faint sewage	100 or	75.0	3	4.4	<1	<1	<1	
54			Hishikigawa	Hishikibashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.2	0.20	3.9	0.0	Colorless transparent	None	100 or	47.8	1	2.6	<1	<1	<1	
55			Ichinosegawa	Kawanakabashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.6	0.90	4.8	0.0	Dark greenish yellow green	None	42	31.1	6	8.4	<1	<1	<1	
56			Sakaigawa	Sakabashi Bridge (National Route 351)	Tsuchiurashi City	2012/2/18	Sunny	4.0	0.70	8.9	0.0	Greenish brown	Faint mold	100 or	40.4	4	5.9	<1	<1	<1	
57			Shinkawa River	Shintenbashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.2	1.80	6.5	0.0	Greenish brown	Faint mold	49	37.0	7	9.5	<1	<1	<1	
58			Sakuragawa	Eiribashi Bridge	Ishikawa City (Ishikawa Pref.)	2012/2/18	Sunny	2.8	0.90	5.1	0.0	Greenish brown	None	68	25.8	10	10	<1	<1	<1	
59			Bizengawa	Bizengawabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.4	0.70	5.8	0.0	Greenish brown	None	50	33.8	9	8.6	<1	<1	<1	
60			Hanamurogawa	Shinwabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.8	0.30	7.1	0.0	Greenish brown	None	39	37.7	17	14	<1	<1	<1	
61			Seimeigawa	Katsubashi Bridge	Amimachi Town	2012/2/21	Clear	14.7	0.30	8.8	0.0	Greenish brown	Faint mold	36	31.4	12	13	<1	<1	<1	
62			Onogawa River	Okuharaohashi Bridge	Asakashi City (Ishikawa Pref.)	2012/2/21	Clear	9.1	0.30	8.1	0.0	Dark green	None	51	54.2	14	13	<1	<1	<1	
66			Kinugawa River	Kinugawa	Kawashimabashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	0.50	7.0	0.0	Greenish brown	None	41	20.1	34	15	<1	<1	<1
67				Kinugawa	Takishabashi Bridge	Moriyashi City	2012/2/17	Sunny	5.5	0.40	6.8	0.0	Yellow green	Faint sewage	100 or	25.5	3	3.4	<1	<1	<1
68	Tagawa River	Tagawabashi Bridge		Chikuseishi City	2012/2/17	Sunny	4.4	0.40	9.0	0.0	Colorless transparent	None	100 or	36.2	5	3.3	<1	<1	<1		
72	Kokaigawa River	Kokaigawa	Kurokobashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	0.50	7.2	0.0	Greenish brown	Faint mold	72	28.8	7	9.2	<1	<1	<1		
75		Kokaigawa	Fumimakibashi Bridge	Asakashi City (Ishikawa Pref.)	2012/2/18	Clear	-1.0	0.40	4.2	0.0	Yellow green	Faint mold	65	29.8	7	6.9	<1	<1	<1		
78	Tonogawa River	Inarigawa	Ogukibashi Bridge	Tsukubashi City	2012/2/17	Sunny	4.4	0.78	7.2	0.0	Grayish green	None	100 or	29.8	2	3.0	<1	<1	<1		
91		Tonegawa	Kurihashi Bridge	Kogashi City	2012/2/17	Sunny	3.2	0.40	6.2	0.0	Colorless transparent	None	50	42.1	5	6.5	<1	<1	<1		
92		Tonegawa	Fukawa	Tonemachi Town	2012/2/21	Clear	12.8	0.20	6.1	0.0	Dark greenish yellow green	Faint mold	67	35.5	8	8.0	<1	<1	<1		
93		Tonegawa	Sawara	Inashikishi City	2012/2/21	Clear	5.5	0.40	5.2	0.0	Greenish brown	Faint mold	34	42.3	20	24	<1	<1	<1		

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

# River: 2nd Sediment Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Sediment														Remarks						
No.	Water body	Point	Municipality					General items																				
								Mud temperature	Mud samplin	Color	Odor	Mechanical composition					Mud conte	Soil particle	Property	Radioactive	Radioactive cesium Cs-134		Radioactive cesium Cs-137					
1	Taga River System	Satonogawa River	Yamagoyabashi Bridge	Kinbarakashi City	2012/2/25	Rain	4.0	0.40	6.2	5	Olive black	None	Coars	Medium	Fine	Coarse	Medi	Fine	Silt	Clay	Mud conte	Soil particle	Property	Radioactive	Radioactive cesium Cs-134	Radioactive cesium Cs-137	450	
2		Satonogawa River	Muryanabashi Bridge	Kinbarakashi City	2012/2/25	Rain	2.8	0.50	5.0	5	Dark olive brown	None	0.3	1.9	10.9	60.9	19.2					6.8	76.0	2.696	Sand with gravel	<30	190	260
4		Kurabeishi	Kinbarakashi Bridge	Kinbarakashi City	2012/2/25	Rain	2.2	0.30	2.4	5	Olive brown	None	1.8	20.9	45.6	25.2	1.7					4.8	78.4	2.705	Sand with gravel	<30	58	86
5		Hinomogawa River	Honarabashi Bridge	Kinbarakashi City	2012/2/25	Rain	2.6	0.40	4.4	5	Brownish black	None	4.7	16.6	45.5	29.3	0.7					3.2	78.4	2.706	Sand with gravel	<30	44	59
6		Okitagawa River	Sakabashi Bridge	Takahagashi City	2012/2/23	Cloudy	10.1	0.50	4.9	5	Dark olive brown	None	1.6	6.9	14.3	46.2	24.5					6.5	76.6	2.702	Sand with gravel	<30	120	190
7		Okitagawa River	Sakabashi Bridge	Kinbarakashi City	2012/2/24	Sunny	8.9	0.60	7.8	5	Brownish black	None	0.3	1.7	30.1	61.6						6.3	70.9	2.696	Sand	<30	310	440
12		Hinomogawa River	Hinomogawabashi Bridge	Takahagashi City	2012/2/23	Cloudy	11.0	0.50	7.3	5	Gray	Faint odors	1.7	28.9	61.8	4.4						3.2	74.0	2.704	Sand with silt	<30	160	240
18	Kujigawa River System	Kujigawa River	Yamagata	Hinokunashi City	2012/2/23	Rain	4.6	0.50	5.1	5	Brownish black	Faint earth	0.4	0.4	11.5	71.4	9.6				6.7	65.2	2.687	Sand with silt	<30	70	87	
23		Kujigawa River	Sakabashi Bridge	Hinokunashi City	2012/2/25	Rain	4.2	0.50	6.5	5	Brownish black	None	0.1	0.4	13.5	68.3	12.1				5.6	64.3	2.683	Sand	<30	20	24	
27		Nakagawa River	Noguchi	Hinokunashi City	2012/2/23	Rain	5.3	0.40	7.0	5	Brownish black	None	10.9	15.7	16.2	41.1	14.3				1.8	82.4	2.707	Sand with gravel	<30	21	31	
30	Nakagawa River System	Nakagawa River	Shimokumi	Mitoshi City	2012/2/25	Rain	4.0	0.30	11.3	5	Olive black	None	2.0	0.8	38.8	52.3					6.1	69.9	2.700	Sand with gravel	<30	30	48	
34		Nakagawa River	Katsunabashi Bridge	Hinokunashi City	2012/2/25	Rain	4.2	0.50	8.1	5	Olive black	None	1.0	1.6	56.2	38.4					2.8	74.8	2.706	Sand with gravel	<30	23	37	
35		Nakagawa River	Yamagawabashi Bridge	Hinokunashi City	2012/2/20	Clear	9.6	0.30	8.4	5	Black	Faint earth	1.0	0.6	11.2	44.3	23.1				19.8	45.6	2.646	Sand with silt	<30	810	1,000	
41		Hinomogawa River	Hinomogawabashi Bridge	Hinokunashi City	2012/2/24	Sunny	11.7	0.60	9.1	5	Brownish black	None	21.9	11.8	10.3	21.8	13.0	7.9			13.3	75.5	2.689	Silt with gravel	<30	240	330	
42	Tonegawa River System	Hokotagawa River	Aashibashi Bridge	Hokotashi City	2012/2/20	Clear	9.1	0.90	10.2	10	Brownish black	Faint earth	1.9	9.0	50.0	24.3	7.4				7.4	58.9	2.694	Silt with sand	<30	160	230	
43		Hokotagawa River	Tokonobashi Bridge	Hokotashi City	2012/2/20	Clear	9.5	0.30	9.8	5	Brownish black	Faint night soil			13.2	76.9					9.9	67.4	2.692	Sand with silt	<30	300	390	
51	Kasumigaura Lake	Samogawa River	Tokonobashi Bridge	Hinokunashi City	2012/2/20	Clear	11.4	0.60	8.9	5	Brownish black	Faint sewage	4.5	9.3	64.1	14.9					7.2	57.2	2.702	Silt with sand	<30	850	1,100	
54		Hshikigawa River	Hshikibashi Bridge	Kanumigawashi City	2012/2/20	Clear	9.2	0.20	3.9	5	Brownish black	None	0.9	6.1	64.8	25.7					2.5	73.3	2.703	Sand with gravel	<30	460	610	
55		Ichinosogawa River	Kawanakabashi Bridge	Kanumigawashi City	2012/2/20	Clear	9.6	0.90	7.3	10	Brownish black	Faint earth	0.7	10.5	54.7	14.6	8.0				11.5	56.4	2.690	Silt with sand	<30	640	900	
56		Sakaigawa River	Kawanakabashi Bridge	Tsuchinashi City	2012/2/18	Sunny	4.0	0.70	8.7	3	Brownish black	None	15.6	15.4	24.1	35.6	5.5				3.8	82.5	2.705	Sand with gravel	<30	310	450	
57		Shinkawa River	Shinobashi Bridge	Tsuchinashi City	2012/2/18	Sunny	4.2	1.80	6.4	10	Olive black	None	0.3	0.7	11.5	6.0	40.0				41.5	22.0	2.598	Silt	<30	1,800	2,600	
58		Sakuragawa River	Eiribashi Bridge	Tsuchinashi City	2012/2/18	Sunny	2.8	0.90	5.2	5	Brownish black	None			5.0	76.6	9.6				8.8	70.7	2.684	Silt with sand	<30	56	80	
59		Bizenogawa River	Honogawabashi Bridge	Tsuchinashi City	2012/2/18	Sunny	4.4	0.70	5.7	3	Dark brown	None	32.5	5.1	4.1	13.1	21.3	11.0			12.9	69.9	2.687	Sand with gravel	<30	98	130	
60		Hinomogawa River	Shinobashi Bridge	Tsuchinashi City	2012/2/18	Sunny	4.8	0.30	6.9	3	Olive black	None	29.2	18.1	14.3	27.8	7.7				2.9	79.9	2.705	Sand with gravel	<30	340	480	
61		Samogawa River	Katsunabashi Bridge	Amanashi Town	2012/2/21	Clear	14.7	0.30	8.9	3	Brownish black	Faint earth			0.2	4.0	32.8	32.7			30.3	27.5	2.632	Silt with sand	<30	2,400	3,400	
62		Onogawa River	Hshikibashi Bridge	Kanumigawashi City	2012/2/21	Clear	9.1	0.30	8.8	3	Yellowish gray	Faint earth	0.7	1.2	2.0	23.7	45.9	12.9			13.6	65.7	2.678	Sand with silt	<30	90	130	
66		Kinugawa River	Kawanakabashi Bridge	Chikusenhi City	2012/2/17	Sunny	5.6	0.50	7.2	3	Dark olive brown	None	1.9	1.4	30.6	51.4	8.5				6.2	75.3	2.691	Sand with gravel	<30	<10	<10	
67		Kinugawa River	Kinugawa River	Takabashi Bridge	Moriyashi City	2012/2/17	Sunny	5.5	0.40	7.2	3	Brownish black	None	13.3	5.7	6.1	27.3	30.6	8.5			8.5	74.0	2.683	Sand with gravel	<30	82	120
68	Tagawa River		Taganabashi Bridge	Chikusenhi City	2012/2/17	Sunny	4.4	0.40	9.0	3	Brownish black	None	1.8	0.9	26.5	64.2					6.6	70.4	2.687	Sand with silt	<30	81	120	
72	Kokagawa River		Karokubashi Bridge	Chikusenhi City	2012/2/17	Sunny	5.6	0.50	7.4	3	Brownish black	None	2.2	4.1	59.6	28.1					6.0	74.2	2.704	Silt with sand	<30	59	83	
75	Kokaigawa River	Kokagawa River	Mumakubashi Bridge	Kanumigawashi City	2012/2/18	Clear	-1.0	0.40	4.0	3	Dark olive brown	None	6.4	0.3	0.8	47.2	20.7	11.4			13.2	54.7	2.675	Gravel/silt with sand	<30	120	190	
78		Itarigawa River	Okugubashi Bridge	Tsukubashi City	2012/2/17	Sunny	4.4	0.78	8.0	3	Brownish black	None	19.3	25.3	14.9	28.3	6.8				5.4	81.6	2.706	Sand with gravel	<30	510	680	
91	Tonegawa River	Tonegawa River	Kuribashi Bridge	Kogashi City	2012/2/17	Sunny	3.2	0.40	5.6	3	Brownish black	None			0.2	12.8	65.9	13.1			8.0	65.2	2.681	Silt with sand	<30	70	89	
92		Tonegawa River	Tukawa	Tonemachi Town	2012/2/21	Clear	12.8	0.20	8.2	5	Grayish olive	None					8.4	67.1	12.9		11.6	59.6	2.682	Silt with sand	<30	130	200	
93		Tonegawa River	Sawara	Hshikishi City	2012/2/21	Clear	5.5	0.40	6.1	5	Brownish black	Faint earth	4.6	2.9	2.8	11.7	72.2				5.8	73.3	2.696	Sand	<30	140	190	

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

River: 2nd Surrounding Environment (River Terrace (Left Bank)) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Surrounding environment (soil/air dose)							Remarks	
							Left bank				Air dose (μSv/h)				
No.	Water body	Point	Municipality				Soil			Radioactive material concentrations					
							General items			Radioactive iodine	Radioactive cesium				
							Color	Odor	Property		Cs-134	Cs-137			
1	Taga River System	Satonogawa River	Yamagoyabashi Bridge	Kitabarakishi City	2012/2/25	Rain	4.0	Brownish black	Faint earth	Loamy	<30	180	270	0.38	
2		Satonogawa River	Murayamabashi Bridge	Kitabarakishi City	2012/2/25	Rain	2.8	Dark olive brown	None	Sandy	<30	810	1,100	0.18	
4		Hanzonogawa River	Kurabeishi	Kitabarakishi City	2012/2/25	Rain	2.2	Brownish black	Faint earth	Loamy	<30	32	56	0.15	Since previous survey locations of surrounding environment (right bank) had much snow, soil sample and air dose surveyed at other locations.
5		Hanzonogawa River	Isonarebashi Bridge	Kitabarakishi City	2012/2/25	Rain	2.6	Brownish black	Faint earth	Loamy	<30	550	710	0.20	
6		Okitagawa River	Sakaebashi Bridge	Takahagishi City	2012/2/23	Cloudy	10.1	grayish yellow brown	Faint earth	Sandy	<30	150	210	0.12	Since previous survey locations of surrounding environment (left bank) had fire ruins, soil sample and air dose surveyed at other locations.
7		Okitagawa River	Sakaebashi Bridge	Kitabarakishi City	2012/2/24	Sunny	8.9	Brownish black	Faint earth	Loamy	<30	320	450	0.22	
12		Hanzonogawa River	Shiharamakibashi Bridge	Takahagishi City	2012/2/23	Cloudy	11.0	Brownish black	Faint earth	Loamy	<30	660	960	0.23	
18		Kujigawa River	Yamagata	Hitachiomiya City	2012/2/23	Rain	4.6	Brownish black	Faint earth	Loamy	<30	130	190	0.13	
23		Kujigawa River	Sakakibashi Bridge	Hitachinaka City/Takuma City	2012/2/25	Rain	4.2	Brownish gray	Faint earth	Sandy	<30	130	180	0.11	
27		Nakagawa River	Nakagawa River	Noguchi	Hitachinaka City/Takuma City	2012/2/23	Rain	5.3	Brownish black	Faint earth	Sandy	<30	110	150	0.12
30		Nakagawa River	Shimokunii	Mitoshi City	2012/2/25	Rain	4.0	light yellowish brown	Faint earth	Loamy	<30	320	420	0.14	Since previous survey locations of surrounding environment (left bank) was covered by concrete, soil sample and air dose surveyed at Kunitohashi Bridge.
34		Nakagawa River	Katsubashi Bridge	Mitoshi City/Hitachinaka City	2012/2/25	Rain	4.2	Brownish black	Faint earth	Loamy	<30	180	240	0.12	
35	Nakamogawa River	Yamagawabashi Bridge	Hitachinaka City	2012/2/20	Clear	9.6	Brownish black	None	Loamy	<30	430	600	0.10		
41	Hinumagawa River	Hinumagawa River	Hinumagawa City	2012/2/24	Sunny	11.7	Brownish black	Faint earth	Loamy	<30	220	300	0.20		
42	Tonegawa River	Kitaura Lake	Hokotagawa River	Asahibashi Bridge	Hokotashi City	2012/2/20	Clear	9.1	—	—	—	—	—	Surrounding environment (soil/air dose): Unable to collect soil due to no exposed soil	
43	System		Tomogawa River	Shimomogawabashi Bridge	Hokotashi City	2012/2/20	Clear	9.5	Brownish black	Earth	Loamy	<30	700	1,000	0.14
51	Kasumigaura Lake	Sannogawa River	Tokorobashi Bridge	Hitachinaka City/Otsumi City	2012/2/20	Clear	11.4	Brownish black	Earth	Loamy	<30	210	310	0.17	
54		Hishikigawa River	Hishikibashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.2	Brownish black	Faint earth	Loamy	<30	380	480	0.17	
55		Echinoegawa River	Kawanakabashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.6	Brownish black	Earth	Loamy	<30	230	310	0.13	
56		Sakaigawa River	Sakaigawa Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.0	Brownish black	None	Loamy	<30	840	1,200	0.23	
57		Shinkawa River	Shintenbashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.2	Brownish black	Faint earth	Loamy	<30	490	690	0.17	
58		Sakuragawa River	Eiribashi Bridge	Tsuchiurashi City/Tsukubashi City	2012/2/18	Sunny	2.8	Brownish black	None	Loamy	<30	230	320	0.12	
59		Bizengawa River	Bizengawabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.4	Brownish black	Faint earth	Loamy	<30	550	760	0.15	
60		Hanzonogawa River	Shinwabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.8	Brownish black	Earth	Loamy	<30	510	760	0.26	
61		Seinegawa River	Katsuhashi Bridge	Amimachi Town	2012/2/21	Clear	14.7	Brownish black	Faint earth	Loamy	<30	440	630	0.25	
62		Onogawa River	Okubaraobashi Bridge	Hitachinaka City/Tsukubashi City	2012/2/21	Clear	9.1	Brownish black	None	Loamy	<30	360	490	0.25	
66		Kinugawa River	Kinugawa River	Kawashimabashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	Brownish black	Faint earth	Sandy	<30	130	160	0.11
67		Kinugawa River	Takishibashi Bridge	Moriyashi City	2012/2/17	Sunny	5.5	Dark brown	Faint earth	Loamy	<30	340	430	0.20	
68	Tagawa River	Tagawabashi Bridge	Chikuseishi City	2012/2/17	Sunny	4.4	Brownish black	Faint earth	Loamy	<30	57	81	0.09		
72	Kokaigawa River	Kurokobashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	Brownish black	None	Loamy	<30	130	200	0.09		
75	Kokaigawa River	Fumimikibashi Bridge	Hitachinaka City/Tsukubashi City	2012/2/18	Clear	-1.0	Dark brown	Faint earth	Loamy	<30	1500	2100	0.15		
78	Inarigawa River	Ogukibashi Bridge	Tsukubashi City	2012/2/17	Sunny	4.4	Dark brown	Faint earth	Loamy	<30	620	840	0.18		
91	Tonegawa River	Kuribashi Bridge	Kogashi City	2012/2/17	Sunny	3.2	Brownish black	Faint earth	Loamy	<30	92	120	0.09		
92	Tonegawa River	Fukawa	Tonemachi Town	2012/2/21	Clear	12.8	Brownish black	Faint earth	Loamy	<30	660	900	0.23		
93	Tonegawa River	Sawara	Inashikishi City	2012/2/21	Clear	5.5	Brownish black	None	Loamy	<30	110	170	0.09		

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

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

## River: 2nd Surrounding Environment (River Terrace (Right Bank)) Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Surrounding environment (soil/air dose)										Remarks		
							Right bank					Soil						Herb	
No.	Water body	Point	Municipality	General items			Radioactive material			Concentration of radioactive			Air dose (μSv/h)						
				Color	Odor	Property	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137							
1	Taga River System	Satonogawa River	Yamagoyabashi Bridge	Kitabarakishi City	2012/2/25	Rain	4.0	Brownish black	Faint earth	Loamy	<30	300	410	--	--	--	0.31		
2		Satonogawa River	Murayamabashi Bridge	Kitabarakishi City	2012/2/25	Rain	2.8	Brownish black	Faint earth	Loamy	<30	110	150	--	--	--	0.15		
4		Himazongawa River	Kurabeishi	Kitabarakishi City	2012/2/25	Rain	2.2	Brownish black	Faint earth	Loamy	<30	350	420	--	--	--	0.15	Since previous survey locations of surrounding environment (right bank) had much snow, soil sample and air dose surveyed at other locations.	
5		Himazongawa River	Isanrebashi Bridge	Kitabarakishi City	2012/2/25	Rain	2.6	Brownish black	Faint earth	Loamy	<30	390	520	--	--	--	0.20		
6		Okitagawa River	Sakabashi Bridge	Takahagishi City	2012/2/23	Cloudy	10.1	Greenish yellow brown	Faint earth	Sandy	Loamy	<30	88	120	--	--	--	0.11	Since previous survey locations of surrounding environment (left bank) had fire ruins, soil sample and air dose surveyed at other locations.
7		Okitagawa River	Sakabashi Bridge	Kitabarakishi City	2012/2/24	Sunny	8.9	Brownish black	Faint earth	Loamy	Loamy	<30	410	560	--	--	--	0.23	
12		Hanumakigawa River	Shitamabashi Bridge	Takahagishi City	2012/2/23	Cloudy	11.0	Brownish black	Faint earth	Loamy	Loamy	<30	880	1,200	--	--	--	0.26	
18	Kujigawa River System	Kujigawa River	Yamagata	Hinohomiyashi City	2012/2/23	Rain	4.6	Brownish black	Faint earth	Sandy	Loamy	<30	82	100	--	--	--	0.11	
23		Kujigawa River	Sakabashi Bridge	Hitachinaka City/Takama Village	2012/2/25	Rain	4.2	Brownish black	Faint earth	Loamy	Loamy	<30	160	200	--	--	--	0.13	
27	Nakagawa River	Noguchi	Hitachinaka City	2012/2/23	Rain	5.3	Brownish black	Faint earth	Sandy	Loamy	<30	170	230	--	--	--	0.12		
30	Nakagawa River System	Nakagawa River	Shimokunii	Mitoshi City	2012/2/25	Rain	4.0	Brownish black	Faint earth	Loamy	Loamy	<30	300	470	--	--	--	0.17	Since previous survey locations of surrounding environment (left bank) was covered by concrete, soil sample and air dose surveyed at Kanibashi Bridge.
34		Nakagawa River	Katsutabashi Bridge	Hitachinaka City	2012/2/25	Rain	4.2	Brownish black	Faint earth	Loamy	Loamy	<30	290	390	--	--	--	0.14	
35		Nakamuragawa River	Yamagatavabashi Bridge	Hitachinaka City	2012/2/20	Clear	9.6	Brownish black	Earth	Loamy	Loamy	<30	180	250	--	--	--	0.08	
41	Himamagawa River	Himamabashi Bridge	Hitachinaka City	2012/2/24	Sunny	11.7	Brownish black	Faint earth	Loamy	Loamy	<30	750	1,000	--	--	--	0.17		
42	Tonegawa River System	Hokotagawa River	Ashibashi Bridge	Hokotashi City	2012/2/20	Clear	9.1	--	--	--	--	--	--	--	--	--	--	Surrounding environment (soil/air dose): Unable to collect soil due to no exposed soil	
43		Tomogawa River	Shitamogawabashi Bridge	Hokotashi City	2012/2/20	Clear	9.5	Brownish black	Earth	Loamy	Loamy	<30	490	620	--	--	--	0.15	
51	Sannogawa River	Tokorobashi Bridge	Hitachinaka City/Otsunashi City	2012/2/20	Clear	11.4	Brownish black	Earth	Loamy	Loamy	<30	310	450	--	--	--	0.16		
54	Hishikigawa River	Hishikibashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.2	Brownish black	Faint earth	Loamy	Loamy	<30	810	1,000	--	--	--	0.19		
55	Ichinogawa River	Kawamabashi Bridge	Kasumigaurashi City	2012/2/20	Clear	9.6	Brownish black	Earth	Loamy	Loamy	<30	260	370	--	--	--	0.13		
56	Sakaigawa River	Shimobashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.0	Brownish black	None	Loamy	Loamy	<30	250	340	--	--	--	0.18		
57	Shinkawa River	Shintenbashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.2	Brownish black	Earth	Loamy	Loamy	<30	890	1,100	--	--	--	0.15		
58	Sakuragawa River	Eiribashi Bridge	Hitachinaka City/Takabashi City	2012/2/18	Sunny	2.8	Brownish black	Faint earth	Loamy	Loamy	<30	440	730	--	--	--	0.11		
59	Bizengawa River	Isomogawabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.4	Dark brown	Faint earth	Loamy	Loamy	<30	460	580	--	--	--	0.16		
60	Hanamarogawa River	Shimwabashi Bridge	Tsuchiurashi City	2012/2/18	Sunny	4.8	Dark brown	Faint earth	Loamy	Loamy	<30	380	520	--	--	--	0.23		
61	Seineigawa River	Katsubashi Bridge	Amimachi Town	2012/2/21	Clear	14.7	Brownish black	Earth	Loamy	Loamy	<30	850	1,100	--	--	--	0.27		
62	Onogawa River	Okubarahashi Bridge	Hitachinaka City/Sakabashi City	2012/2/21	Clear	9.1	Brownish black	None	Loamy	Loamy	<30	530	780	--	--	--	0.24		
66	Kinugawa River	Kawashimabashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	Dark greenish yellow	Faint earth	Sandy	Loamy	<30	130	220	--	--	--	0.10		
67	Kinugawa River	Kinugawa River	Takishimabashi Bridge	Moriyashi City	2012/2/17	Sunny	5.5	Dark brown	Faint earth	Loamy	Loamy	<30	430	590	--	--	--	0.17	
68		Tagawa River	Tagawabashi Bridge	Chikuseishi City	2012/2/17	Sunny	4.4	Brownish black	Faint earth	Loamy	Loamy	<30	130	230	--	--	--	0.08	
72	Kokaigawa River	Kurokobashi Bridge	Chikuseishi City	2012/2/17	Sunny	5.6	Brownish black	None	Loamy	Loamy	<30	120	160	--	--	--	0.10		
75	Kokaigawa River	Fumimabashi Bridge	Hitachinaka City/Takabashi City	2012/2/18	Clear	-1.0	Brownish black	Faint earth	Loamy	Loamy	<30	480	690	--	--	--	0.17		
78	Inarigawa River	Okubashi Bridge	Fukubashi City	2012/2/17	Sunny	4.4	Brownish black	Faint green grass	Loamy	Loamy	<30	4,000	5,400	--	--	--	0.22		
91	Tonegawa River	Kuribashi Bridge	Kogashi City	2012/2/17	Sunny	3.2	Brownish black	Faint earth	Loamy	Loamy	<30	59	71	--	--	--	0.09		
92	Tonegawa River	Fukawa	Tonemachi Town	2012/2/21	Clear	12.8	Brownish black	Faint earth	Loamy	Loamy	<30	180	250	--	--	--	0.22		
93	Tonegawa River	Sawara	Inashikishi City	2012/2/21	Clear	5.5	Brownish black	Faint earth	Loamy	Loamy	<30	650	940	--	--	--	0.12		

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

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

## Lake and Headwater: 2nd Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Radioactive material concentrations (Bq/L)			Remarks
No.	Point	Municipality					Water temperature	Sampling depth m	Color	Odor	Secchi disk depth	Electrical conductivity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium Cs-134	Radioactive cesium Cs-137			
94	Hinuma Lake Hiroura	—	2012/2/24	Sunny	4.2	2.8	6.3	0.5	Dark grayish yellow green	None	1.6	1764.0	2	5.0	<1	<1	<1			
			1 m from the bottom	—	—	—	—	6.9	1.8	—	None	—	2050.0	3	4.1	<1	<1	<1		
95	Hinuma Lake Miyamae	—	2012/2/24	Sunny	4.0	3.2	5.5	0.5	Dark grayish yellow green	None	1.4	1490.0	6	10	<1	<1	<1			
			1 m from the bottom	—	—	—	—	8.0	2.2	—	None	—	2430.0	3	5.1	<1	<1	<1		
96	Hinuma Lake Oyazawa	—	2012/2/24	Sunny	5.4	2.3	7.3	0.5	Dark grayish yellow green	None	1.2	751.0	10	14	<1	<1	<1			
			1 m from the bottom	—	—	—	—	7.6	1.3	—	None	—	2030.0	5	6.6	<1	<1	<1		
97	Kasumigaura Lake Offshore of Tamatsukuri	—	2012/2/17	Sunny	5.0	7.0	5.1	0.5	Greenish brown	Faint mold	1.0	27.6	13	18	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.7	6.0	—	Faint mold	—	26.6	11	17	<1	<1	<1		
98	Kasumigaura Lake Offshore of Kakeuma	—	2012/2/17	Sunny	5.4	2.2	4.8	0.5	Greenish brown	None	0.8	28.0	13	19	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.8	1.2	—	None	—	28.4	12	18	<1	<1	<1		
99	Kasumigaura Lake Center of the lake	—	2012/2/17	Sunny	3.6	6.1	4.6	0.5	Dark grayish yellow green	Faint mold	1.2	29.5	10	16	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.5	5.1	—	Faint mold	—	28.5	9	15	<1	<1	<1		
100	Kasumigaura Lake Offshore of Aso	—	2012/2/17	Sunny	2.2	2.5	4.5	0.5	Greenish brown	Faint sewage	0.7	35.1	13	20	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.5	1.5	—	Faint sewage	—	33.4	13	20	<1	<1	<1		
101	Kitaura Lake Offshore of Kamaya	—	2012/2/18	Sunny	1.2	6.7	4.1	0.5	Dark grayish yellow green	None	1.8	30.8	4	4.4	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.3	5.7	—	None	—	31.8	4	4.5	<1	<1	<1		
102	Kitaura Lake Jingubashi Bridge	—	2012/2/18	Sunny	1.4	2.8	4.4	0.5	Dark grayish yellow green	None	1.3	38.2	6	7.5	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.5	1.8	—	None	—	41.9	6	7.0	<1	<1	<1		
103	Hitachitonegawa River Sotonasakaura Lake	—	2012/2/18	Sunny	2.6	2.5	5.0	0.5	Greenish brown	None	0.7	46.8	16	20	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.9	1.5	—	None	—	50.2	16	21	<1	<1	<1		
104	Hitachitonegawa River Ikisu	—	2012/2/18	Sunny	2.2	5.1	5.1	0.5	Greenish brown	Faint mold	0.9	49.2	10	15	<1	<1	<1			
			1 m from the bottom	—	—	—	—	5.0	4.1	—	Faint mold	—	50.9	10	16	<1	<1	<1		
105	Ushikunuma Lake Center of Ushikunuma Lake	—	2012/2/18	Clear	-1.0	1.7	4.2	0.5	Greenish brown	None	0.7	29.2	14	14	<1	<1	<1			
			1 m from the bottom	—	—	—	—	4.2	0.7	—	None	—	30.2	13	13	<1	<1	<1		

Note: Sampling points are listed from north to south.

## Lake and Headwater: 2nd Sediment Monitoring Results

Sampling point			Sampling date	Weather	Air temperature °C	Full depth m	Sediment																	Remarks
No.	Point	Municipality					General items											Radioactive material concentrations						
							Mud temperature	Mud sampling	Color	Odor	Mechanical composition						Mud content	Soil particle	Property	Radioactive iodine	Radioactive cesium			
			Coarse	Medium	Fine	Coarse	Medium	Fine sand	Silt	Clay									Cs-134	Cs-137				
94	Hinuma Lake	Hiroura	2012/2/24	Sunny	4.2	2.8	9.2	10	Olive black	None			0.1	0.0	1.0	7.3	59.3	32.3	39.3	2.576	Silt	<30	110	150
		1 m from the bottom																						
95	Hinuma Lake	Miyamae	2012/2/24	Sunny	4.0	3.2	9.5	10	Black	Faint hydrogen sulfide					0.4	4.7	52.6	42.3	22.8	2.577	Silt	<30	63	99
		1 m from the bottom																						
96	Hinuma Lake	Oyazawa	2012/2/24	Sunny	5.4	2.3	9.2	10	Black	Faint hydrogen sulfide			0.2	0.0	0.4	6.1	63.8	29.5	33.8	2.566	Silt	<30	170	250
		1 m from the bottom																						
97	Kasumigaura Lake	Offshore of Tamatsukuri	2012/2/17	Sunny	5.0	7.0	5.4	10	Olive black	Faint hydrogen sulfide						1.1	33.6	65.3	17.4	2.532	Silt	<30	530	770
		1 m from the bottom																						
98	Kasumigaura Lake	Offshore of Kakeuma	2012/2/17	Sunny	5.4	2.2	4.9	3	Olive black	None			0.7	0.4	46.8	50.1		2.0	75.3	2.706	Sand	<30	180	260
		1 m from the bottom																						
99	Kasumigaura Lake	Center of the lake	2012/2/17	Sunny	3.6	6.1	5.6	10	Olive black	None							46.6	53.4	15.3	2.528	Silt	<30	360	540
		1 m from the bottom																						
100	Kasumigaura Lake	Offshore of Aso	2012/2/17	Sunny	2.2	2.5	4.8	5	Olive black	None			0.5	0.3	2.3	89.5		7.4	74.8	2.698	Sand with silt	<30	100	150
		1 m from the bottom																						
101	Kitaura Lake	Offshore of Kamaya	2012/2/18	Sunny	1.2	6.7	5.7	10	Olive black	Faint earth							53.7	46.3	13.5	2.518	Silt	<30	390	610
		1 m from the bottom																						
102	Kitaura Lake	Jingubashi Bridge	2012/2/18	Sunny	1.4	2.8	5.2	5	Olive black	None			0.3	2.0	18.7	57.4	12.4	9.2	61.2	2.677	Silt with sand	<30	87	130
		1 m from the bottom																						
103	Hitachitonegawa River	Sotomatsakaura Lake	2012/2/18	Sunny	2.6	2.5	5.3	3	Olive black	None					1.8	93.0		5.2	76.6	2.703	Sand with silt	<30	52	91
		1 m from the bottom																						
104	Hitachitonegawa River	Ikisu	2012/2/18	Sunny	2.2	5.1	5.2	3	Olive black	None					4.1	92.2		3.7	70.8	2.702	Sand	<30	85	120
		1 m from the bottom																						
105	Ushikunuma Lake	Center of Ushikunuma Lake	2012/2/18	Clear	-1.0	1.7	4.8	10	Dark olive brown	None					4.9	69.7	9.5	15.9	53.3	2.682	Silt with sand	<30	430	590
		1 m from the bottom																						

Note: Sampling points are listed from north to south.

## Lake and Headwater: 2nd Surrounding Environment (Lake Shore) Monitoring Results

Sampling point			Sampling date	Weather	Air temperature °C	Surrounding environment (soil/air dose)						Air dose ( $\mu$ Sv/h)	Remarks	
No.	Point	Municipality				Soil			Radioactive material concentrations (Bq/kg)					
						General items			Radioactive iodine	Radioactive cesium				
			Color	Odor	Property		Cs-134	Cs-137						
94	Hinuma Lake	Hiroura	—	2012/2/24	Sunny	4.2	Dark brown	Faint earth	Loamy	<30	270	360	0.19	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
95	Hinuma Lake	Miyamae	—	2012/2/24	Sunny	4.0	Brownish black	Faint earth	Loamy	<30	100	140	0.10	Since top soil of previous survey locations was removed, soil sample and air dose surveyed at other locations.
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
96	Hinuma Lake	Oyazawa	—	2012/2/24	Sunny	5.4	—	—	—	—	—	—	—	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
97	Kasumigaura Lake	Offshore of Tamatsukuri	—	2012/2/17	Sunny	5.0	Brownish black	None	Sandy	<30	68	110	0.10	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
98	Kasumigaura Lake	Offshore of Kakeuma	—	2012/2/17	Sunny	5.4	Grayish yellow brown	Faint earth	Loamy	<30	21	37	0.13	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
99	Kasumigaura Lake	Center of the lake	—	2012/2/17	Sunny	3.6	—	—	—	—	—	—	—	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
100	Kasumigaura Lake	Offshore of Aso	—	2012/2/17	Sunny	2.2	Yellowish brown	None	Sandy	<30	72	90	0.08	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
101	Kitaura Lake	Offshore of Kamaya	—	2012/2/18	Sunny	1.2	Brownish black	Faint earth	Loamy	<30	300	440	0.11	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
102	Kitaura Lake	Jingubashi Bridge	—	2012/2/18	Sunny	1.4	Brownish black	None	Loamy	<30	78	110	0.06	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
103	Hitachitonegawa River	Sotonasakaura Lake	—	2012/2/18	Sunny	2.6	Brownish black	Faint earth	Loamy	<30	360	470	0.09	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
104	Hitachitonegawa River	Ikisu	—	2012/2/18	Sunny	2.2	Brownish black	None	Loamy	<30	190	290	0.09	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	
105	Ushikumama Lake	Center of Ushikumama Lake	—	2012/2/18	Clear	-1.0	Brownish black	None	Loamy	<30	340	480	0.17	
		1 m from the bottom	—	—	—	—	—	—	—	—	—	—	—	

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

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

### Coast: 2nd Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Water quality										Remarks
No.	Water body	Point	Municipality					General items							Radioactive material concentrations (Bq/L)			
				Water temperature	Sampling depth	Color	Odor	Secchi disk depth	Salinity	SS mg/L	Turbidity	Radioactive iodine	Radioactive cesium					
											Cs-134	Cs-137						
106	Sea	Offshore of Satonegawa River Estuary	--	2012/2/21	Clear	4.4	13.1	10.0	0.5	Green	None	9.8	32.8	1	1.4	<1	<1	<1
		1 m from the bottom	--	--	--	--	--	10.6	12.1	--	None	--	34.0	3	2.7	<1	<1	<1
107	a	Offshore of Okitagawa River Estuary	--	2012/2/21	Clear	5.0	12.0	10.5	0.5	Green	None	9.7	33.5	2	1.0	<1	<1	<1
		1 m from the bottom	--	--	--	--	--	11.2	11.0	--	None	--	34.1	4	1.9	<1	<1	<1
114	a	Offshore of Momiyagawa River/Kujigawa River Estuaries	--	2012/2/21	Clear	9.0	10.1	10.7	0.5	Yellow green	None	7.3	31.4	2	1.9	<1	<1	<1
		1 m from the bottom	--	--	--	--	--	11.0	9.1	--	None	--	34.0	3	2.4	<1	<1	<1
116	e	Neighboring water body of Ken-o	Offshore of	2012/2/21	Clear	10.2	5.9	7.9	0.5	Green	None	3.5	13.6	1	2.7	<1	<1	<1
		1 m from the bottom	--	--	--	--	--	10.4	4.9	--	None	--	32.7	6	3.4	<1	<1	<1
117	s	Offshore of Tonegawa River Estuary	--	2012/2/20	Clear	7.2	8.2	7.1	0.5	Yellow green	None	2.4	14.4	5	6.0	<1	<1	<1
		1 m from the bottom	--	--	--	--	--	11.2	7.2	--	None	--	33.7	23	7.7	<1	<1	<1

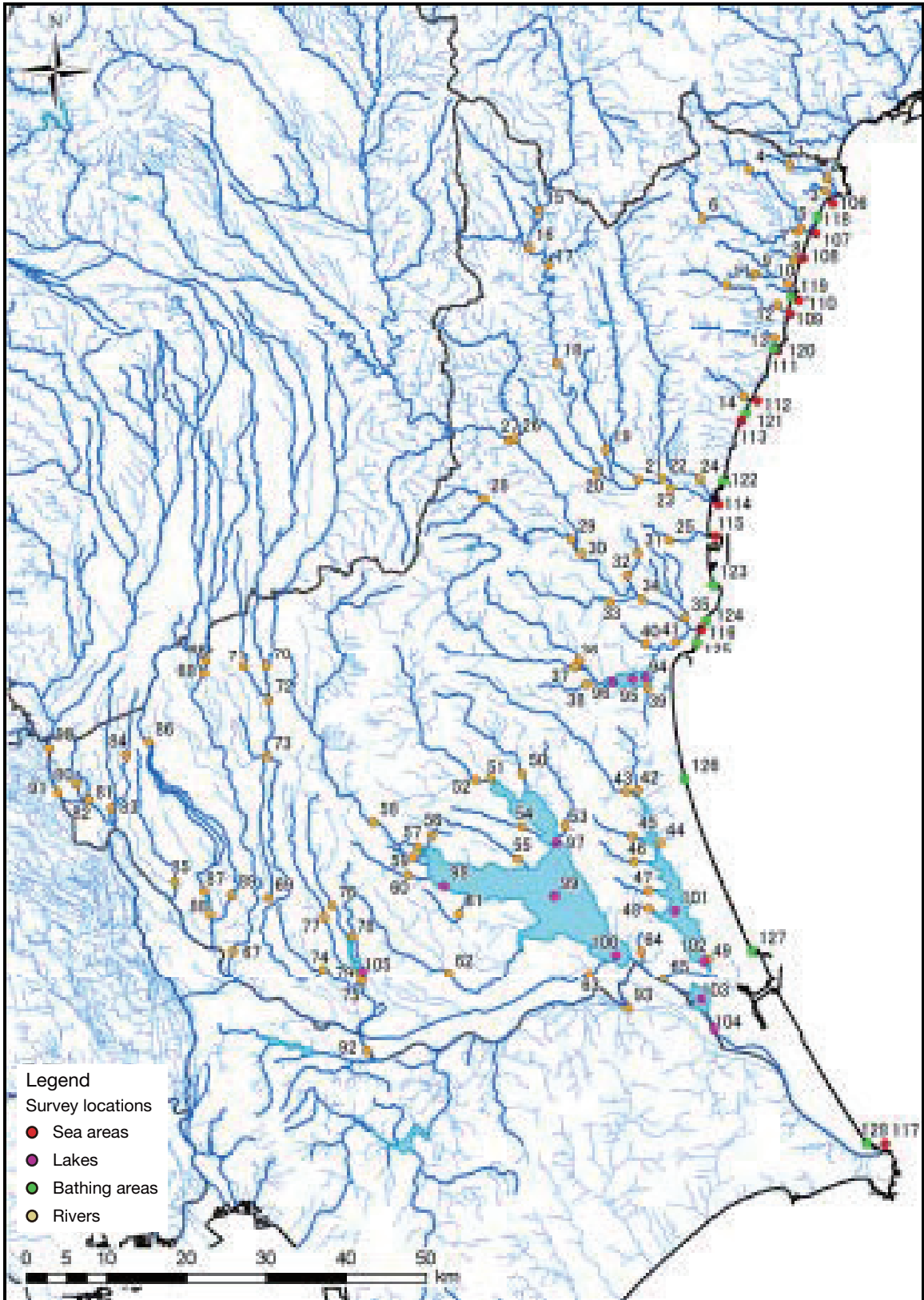
Note: Sampling points are listed from north to south.

### Coast: 2nd Sediment Monitoring Results

Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Sediment													Remarks					
No.	Water body	Point	Municipality					General items							Radioactive material concentrations											
				Mud temperature	Mud sampling	Color	Odor	Mechanical composition					Mud content	Soil particle	Property	Radioactive iodine	Radioactive cesium									
											Coarse	Medium	Fine	Coars	Medium	Fine	Silt	Clay				Radioactive cesium	Cs-134	Cs-137		
106	Sea	Offshore of Satonegawa River Estuary	--	2012/2/21	Clear	4.4	13.1	10.1	10	Olive	None	--	--	0.7	1.6	16.4	63.4	13.5	4.4	79.3	2.679	Sand	--	<30	41	53
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
107	a	Offshore of Okitagawa River Estuary	--	2012/2/21	Clear	5.0	12.0	10.8	10	Olive	None	--	--	0.4	0.8	23.6	62.0	9.5	3.7	81.5	2.685	Sand	--	<30	68	97
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
114	a	Offshore of Momiyagawa River/Kujigawa River	--	2012/2/21	Clear	9.0	10.1	10.2	5	Olive	Faint	--	--	0.1	0.0	10.0	68.6	12.4	8.9	68.2	2.687	Sand with silt	--	<30	100	130
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
116	e	Neighboring water body of Ken-o	Offshore of	2012/2/21	Clear	10.2	5.9	10.6	10	Olive	None	--	1.7	2.6	7.2	80.7	6.3	1.5	80.8	2.708	Sand with gravel	--	<30	<10	11	
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
117	s	Offshore of Tonegawa River Estuary	--	2012/2/20	Clear	7.2	8.2	10.2	5	Olive	None	--	--	0.3	2.4	81.6	10.3	5.4	76.9	2.687	Sand	--	<30	<10	12	
		1 m from the bottom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note: Sampling points are listed from north to south.





Survey Locations (Ibaraki Prefecture)