

○ Results (water)

Location				August - September 2014 Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1 (Surface layer)	37.62063°	140.52205°	7.5	1.1	4.7	8.9	14.1	0.08	1.7	16	4.1	0.028	0.076	0.00099
	A-1 (Deep layer)	37.62063°	140.52205°	7.5	1.3	5.7	9.3	14.1	0.08	1.8	18	5.3	0.028	0.078	—
	A-2	37.56542°	140.39438°	7.2	1.2	4.8	8.6	16.6	0.06	1.8	16	3.9	0.030	0.087	—
	B-1	37.78475°	140.49213°	7.6	0.8	5.7	8.7	13.6	0.07	1.9	20	6.7	0.037	0.11	—
	B-2	37.81195°	140.50575°	7.5	1.0	4.1	9.0	12.9	0.07	1.6	14	3.8	0.043	0.12	—
	B-3	37.81630°	140.47173°	7.5	0.6	4.5	9.4	8.2	0.05	1.7	4	1.9	0.017	0.049	—
Udagawa River	C-1	37.79557°	140.74558°	7.4	<0.5	1.5	9.9	9.1	0.05	0.7	1	0.5	0.0098	0.028	—
	C-2	37.77107°	140.72778°	7.4	0.5	3.7	8.6	9.0	0.05	1.8	4	2.6	0.015	0.045	—
	C-3	37.77908°	140.80408°	7.4	<0.5	2.6	9.5	8.4	0.05	1.1	5	4.7	0.045	0.13	—
	C-4	37.76925°	140.84423°	7.6	<0.5	2.2	9.7	7.9	0.04	1.1	2	2.5	0.024	0.069	0.00095
	C-5	37.76453°	140.86028°	7.7	<0.5	2.3	9.4	8.0	0.04	1.1	6	3.6	0.016	0.045	—
	C-6	37.77642°	140.88752°	7.5	<0.5	2.4	9.6	9.2	0.05	1.1	4	4.7	0.013	0.036	—
Manogawa River	D-1	37.73315°	140.92535°	7.1	<0.5	3.3	10.4	8.7	0.05	1.5	1	1.3	0.025	0.066	0.0014
	D-2	37.70985°	140.95650°	7.3	<0.5	3.2	9.7	8.9	0.05	1.5	3	1.7	0.020	0.055	—
	D-3	37.70502°	140.96213°	7.2	<0.5	3.2	9.7	9.6	0.05	1.3	2	1.4	0.017	0.046	—
	D-4 a	37.73088°	140.90813°	7.3	0.6	3.3	9.5	8.0	0.05	1.6	1	1.4	0.021	0.061	—
	D-4 b	37.73157°	140.90930°	7.4	<0.5	2.6	9.5	7.7	0.04	1.5	2	1.1	0.027	0.078	—
	D-5	37.72168°	140.88980°	7.4	<0.5	2.8	9.6	7.2	0.04	1.5	1	1.2	0.026	0.075	—
Niida River	E-1	37.66145°	140.91140°	7.8	0.5	2.7	9.8	7.0	0.04	1.1	5	2.5	0.40	1.2	0.0021
	E-2 a	37.66428°	140.94548°	7.5	0.5	2.5	9.8	7.3	0.04	1.1	2	1.9	0.053	0.15	—
	E-2 b	37.66405°	140.94583°	7.6	0.5	2.7	9.3	7.1	0.04	1.1	5	2.7	0.078	0.22	—
	E-3	37.64458°	141.00170°	7.5	<0.5	3.1	9.5	8.3	0.05	1.1	6	2.3	0.066	0.18	—
	E-4	37.64630°	140.96575°	7.6	<0.5	3.0	9.5	7.4	0.04	1.1	5	2.1	0.041	0.12	—
	E-5	37.66515°	140.91752°	7.6	<0.5	2.5	10.2	7.0	0.04	1.1	4	2.1	0.051	0.15	—
Ota River	F-1	37.59747°	140.92482°	7.2	0.8	3.1	9.0	5.1	0.03	1.1	2	1.1	0.11	0.31	—
	F-2	37.60153°	140.94358°	7.0	0.7	3.2	9.1	5.4	0.03	1.0	4	1.3	0.13	0.37	0.0038
	F-3	37.60453°	140.96410°	7.0	0.8	3.4	9.0	5.7	0.03	1.1	6	1.3	0.12	0.35	—
	F-4	37.60703°	140.97215°	7.0	0.7	3.5	8.6	5.8	0.04	1.0	6	1.4	0.16	0.45	—
	F-5	37.60227°	140.98742°	6.8	0.8	3.3	9.0	6.3	0.04	1.0	6	1.3	0.14	0.39	—
	F-6	37.59543°	141.01253°	6.9	0.9	4.0	9.0	9.5	0.05	1.4	6	1.7	0.12	0.33	—
Lake Hayama (Mano Dam)	G-1 (Surface layer)	37.73430°	140.80997°	7.3	1.3	4.6	9.7	7.1	0.04	1.9	4	3.4	0.021	0.061	—
	G-1 (Deep layer)			7.4	1.0	4.0	7.3	6.9	0.04	2.1	3	4.2	0.044	0.12	0.0012
	G-3 (Surface layer)	37.72917°	140.83155°	7.6	1.4	4.3	9.5	7.1	0.04	2.3	2	2.0	0.018	0.053	—
	G-3 (Deep layer)			7.4	0.9	4.0	5.0	8.5	0.05	2.4	3	2.5	0.019	0.050	—
	G-5 (Surface layer)	37.73383°	140.80872°	7.8	0.9	4.3	9.5	6.6	0.04	1.9	3	2.9	0.022	0.059	—
	G-5 (Deep layer)			7.5	0.9	4.2	7.7	7.1	0.04	1.8	9	5.0	0.12	0.33	—
Lake Akimoto	H-1 (Surface layer)	37.65753°	140.12637°	7.8	1.1	3.3	7.0	6.0	0.04	1.8	2	0.9	0.0071	0.019	—
	H-1 (Deep layer)			6.7	<0.5	3.9	5.3	4.1	0.03	1.5	2	1.0	0.0033	0.0095	—
	H-3 (Surface layer)	37.66540°	140.13262°	7.5	0.7	3.9	8.9	5.7	0.03	1.4	2	1.0	0.0071	0.019	—
	H-3 (Deep layer)			7.2	0.5	4.5	7.0	5.3	0.03	1.8	3	1.1	0.0077	0.024	0.0012
	H-5 (Surface layer)	37.65200°	140.15637°	7.6	0.5	3.3	7.4	6.1	0.04	1.8	1	0.4	0.0057	0.017	—
	H-5 (Deep layer)			7.1	0.8	3.2	6.8	6.0	0.03	1.4	2	1.1	0.0054	0.015	—
Lake Inawashiro	I-1 (Surface layer)	37.50552°	140.11413°	7.5	<0.5	1.7	8.2	10.8	0.06	0.7	2	0.7	0.0047	0.014	—
	I-1 (Deep layer)			7.3	<0.5	1.8	7.6	10.8	0.06	0.8	1	0.8	0.0047	0.014	0.00082
	I-3 (Surface layer)	37.50897°	140.02633°	7.2	<0.5	2.1	7.3	10.8	0.06	0.8	1	0.9	0.0053	0.014	—
	I-3 (Deep layer)			7.2	1.2	1.9	7.5	10.9	0.06	1.1	1	0.9	0.0049	0.013	—
	J-1 (Surface layer)	37.42048°	140.10037°	7.2	<0.5	1.9	9.0	10.6	0.06	0.7	2	1.0	0.0052	0.013	—
	J-1 (Deep layer)			7.2	<0.5	1.8	7.8	10.6	0.06	0.8	2	1.0	0.0043	0.013	—

○ Results (water)

Location				August - September 2014 Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Off the mouth of the Abukuma River (Off Watari Town)	K-2 (Surface layer)	38.04536°	140.94004°	8.4	1.2	1.8	9.3	4,640	29.20	1.6	3	2.2	0.0085	0.024	—
	K-2 (Deep layer)			8.0	0.6	1.0	4.0	5,200	33.22	1.0	5	3.0	0.0016	0.0086	0.0014
Off Soma City (Matsukawaura)	L-2	37.81558°	140.97628°	8.0	1.1	2.4	7.6	3,890	28.87	1.8	6	1.7	0.0073	0.022	0.0010
	L-3	37.82178°	140.97643°	8.1	1.0	3.0	8.0	3,850	28.92	1.4	5	1.5	0.0061	0.019	—
Off Iwaki City (Hisanohama)	M-2 (Surface layer)	37.19920°	141.08567°	8.1	<0.5	1.5	8.2	5,180	33.05	1.1	3	0.6	0.0034	0.0099	—
	M-2 (Deep layer)			8.1	<0.5	1.8	9.1	5,250	33.60	0.9	3	0.6	0.0013	0.0044	0.0010

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

○ Results (sediments)

	Location		August - September 2014 Survey																		
	Latitude	Longitude	pH	Redox potential E _{N,HHE} (mV)	Moisture content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
									Gravel (2~75mm) (%)	Coarse sand (0.85~2mm) (%)	Medium sand (0.25~0.85mm) (%)	Fine sand (0.075~0.25mm) (%)	Silt (0.005~0.075mm) (%)	Clay (Less than 0.005mm) (%)	Diameter grain diameter (mm)	Minimum grain diameter (mm)					
Abukuma River System	A-1	37.62063°	140.52205°	7.3	198	60.1	11.4	33.2	2,578	0.0	0.2	0.6	14.8	25.2	59.2	—	2	840	2,600	0.64	
	A-2	37.56542°	140.39438°	6.9	263	36.7	5.6	13.0	2,680	0.8	13.5	45.0	16.4	10.2	14.1	0.33	9.5	230	700	—	
	B-1	37.78475°	140.49213°	7.2	191	19.8	2.0	1.8	2,743	40.4	18.2	14.9	18.5	3.3	4.7	1.4	19	97	310	—	
	B-2	37.81195°	140.50575°	7.2	234	23.2	1.4	1.0	2,786	1.7	3.3	69.0	23.5	1.0	1.5	0.34	9.5	57	150	—	
Udagawa River	B-3	37.81630°	140.47173°	7.3	245	21.5	1.5	1.7	2,678	30.9	31.4	32.7	3.0	0.8	1.2	1.1	19	66	180	—	
	C-1	37.79557°	140.74558°	7.2	296	29.5	3.6	5.6	2,725	43.6	32.5	16.3	4.3	1.5	1.8	1.7	9.5	270	760	—	
	C-2	37.77107°	140.72778°	6.7	154	41.1	4.7	10.7	2,680	27.7	19.4	20.4	7.6	8.5	16.4	0.76	9.5	140	440	—	
	C-4	37.76925°	140.84423°	7.4	231	18.8	1.3	1.2	2,717	49.7	30.2	19.2	0.5	0.2	0.2	2.0	9.5	120	370	0.68	
	C-5	37.76453°	140.86028°	7.4	258	20.9	1.3	1.7	2,700	36.3	42.9	16.1	2.7	1.0	1.0	1.6	9.5	160	470	—	
Manogawa River	C-6	37.77642°	140.88752°	7.2	263	22.1	2.0	1.7	2,744	13.6	20.8	52.2	11.4	1.2	0.8	0.58	9.5	100	330	—	
	D-1	37.73315°	140.92535°	7.1	334	15.3	1.7	2.5	2,702	69.0	19.7	7.7	2.8	0.4	0.4	2.8	9.5	290	810	1.5	
	D-2	37.70985°	140.95650°	7.1	339	15.8	1.4	2.1	2,698	58.3	28.6	11.4	1.0	0.3	0.4	2.4	9.5	120	360	—	
	D-3	37.70502°	140.96213°	7.2	346	22.1	1.6	1.6	2,695	7.5	11.8	72.0	6.7	1.2	0.8	0.53	9.5	24	69	—	
	D-4 a	37.73088°	140.90813°	7.1	356	20.2	2.0	2.8	2,725	27.7	28.1	32.3	9.3	1.3	1.3	1.0	9.5	450	1,300	—	
Niida River	D-5	37.72168°	140.88980°	7.4	364	23.2	2.0	2.2	2,704	25.5	41.7	28.9	2.2	0.7	1.0	1.2	9.5	280	870	—	
	E-1	37.66145°	140.91140°	7.1	271	18.1	0.7	1.4	2,664	31.8	53.8	14.0	0.2	0.1	0.1	1.5	9.5	230	670	0.20	
	E-2 a	37.66428°	140.94548°	6.5	292	26.1	3.0	10.5	2,663	46.4	15.1	14.7	11.4	5.7	6.7	1.7	9.5	2,000	5,600	—	
	E-3	37.64458°	141.00170°	6.9	289	15.0	1.0	1.8	2,675	38.3	27.9	32.4	1.0	0.2	0.2	1.4	9.5	82	270	—	
	E-4	37.64630°	140.96575°	6.8	288	17.0	0.8	1.8	2,678	22.2	35.4	40.8	1.3	0.1	0.2	0.99	9.5	110	300	—	
Ota River	E-5	37.66515°	140.91752°	6.9	291	18.4	1.4	2.1	2,690	36.4	30.5	27.8	1.4	0.5	0.6	1.4	9.5	460	1,400	—	
	F-1	37.59747°	140.92482°	6.6	307	22.6	1.6	2.8	2,667	45.3	28.1	14.0	8.3	2.0	2.3	1.8	19	3,400	10,000	—	
	F-2	37.60153°	140.94358°	6.8	293	13.8	0.6	1.4	2,655	57.6	35.3	6.8	0.1	0.1	0.1	2.3	19	1,100	3,400	0.33	
	F-3	37.60453°	140.96410°	6.8	304	16.4	0.7	1.5	2,658	52.7	28.0	12.9	5.2	0.7	0.5	2.1	19	920	2,800	—	
	F-4	37.60703°	140.97215°	6.7	324	18.0	0.5	1.2	2,657	35.7	36.4	22.8	4.3	0.5	0.3	1.5	9.5	780	2,300	—	
Lake Hayama (Mano Dam)	F-5	37.60227°	140.98742°	6.6	326	19.5	0.8	1.6	2,647	18.9	35.9	40.5	3.2	0.7	0.8	0.94	19	390	1,200	—	
	G-1	37.73430°	140.80997°	6.6	177	83.0	24.4	81.4	2,352	0.0	—	0.1	7.5	39.1	53.3	0.0024	0.850	3,700	11,000	6.5	
	G-2	37.72572°	140.82113°	6.7	167	76.1	16.2	44.1	2,506	0.0	0.1	0.2	0.6	35.1	64.0	—	2	1,900	5,900	—	
	G-3	37.72917°	140.83155°	6.9	118	44.9	5.3	12.7	2,645	14.0	18.9	21.6	11.9	12.6	21.0	0.34	9.5	630	1,900	—	
	G-4	37.73810°	140.80412°	7.2	161	63.1	5.2	11.4	2,616	22.1	20.4	31.4	5.5	9.9	10.7	0.70	19	1,600	4,600	—	
Lake Akimoto	G-5	37.73383°	140.80872°	7.8	137	73.0	19.2	54.7	2,425	0.0	—	6.5	16.3	20.1	57.1	0.0010	0.850	6,200	18,000	—	
	H-1	37.65753°	140.12637°	6.7	121	63.7	8.1	17.5	2,587	0.0	0.0	0.2	0.2	27.0	72.6	—	2	93	300	—	
	H-2	37.66198°	140.12298°	6.7	104	77.5	16.2	59.3	2,426	0.0	0.1	0.3	0.2	29.4	70.0	—	2	340	930	—	
	H-3	37.66540°	140.13262°	6.2	75	73.3	14.5	43.8	2,474	0.0	0.2	0.3	20.2	20.4	58.9	—	2	1,100	3,100	2.0	
	H-4	37.65403°	140.11810°	6.6	32	68.4	7.5	22.5	2,588	4.0	1.2	2.4	6.9	26.6	58.9	—	9.5	170	480	—	
Lake Inawashiro	H-5	37.65200°	140.15637°	6.4	46	58.4	8.6	24.5	2,609	0.0	0.1	0.3	27.3	23.0	49.3	0.0058	2	400	1,200	—	
	I-1	37.50552°	140.11413°	6.7	24	78.9	8.2	22.2	2,550	0.0	0.3	6.1	53.1	18.3	22.2	0.11	2	300	920	0.38	
	I-2	37.50045°	140.14112°	6.7	6	60.5	6.5	17.8	2,646	0.0	3.1	6.2	49.8	14.4	26.5	0.10	2	160	500	—	
	I-3	37.50897°	140.02633°	6.9	54	70.9	10.4	27.3	2,586	0.0	0.3	1.5	18.3	33.0	46.9	0.0084	2	31	120	—	
	I-4	37.51535°	140.10395°	6.4	245	24.6	1.5	1.9	2,747	29.0	16.8	42.6	10.8	0.4	0.4	0.75	19	16	64	—	
Off the mouth of the Abukuma River (Off Watari Town)	J-1	37.42048°	140.10037°	7.0	268	34.2	1.8	3.3	2,667	0.4	2.8	71.9	22.7	3.3	1.0	1.2	0.31	4.75	62	230	—
	K-1	38.04562°	140.92821°	7.1	210	26.4	1.8	1.4	2,744	0.0	0.1	13.8	81.7	0.8	3.6	0.17	2	35	110	—	
	K-2	38.04536°	140.94004°	7.4	194	36.1	3.3	3.9	2,738	0.0	0.1	1.9	61.8	14.3	21.9	0.11	2	82	300	N.D.(0.17)	
Off Soma City (Matsukawaura)	K-3	38.04583°	140.95187°	7.4	171	49.3	5.8	11.3	2,702	0.0	0.2	0.4	20.4	50.9	28.1	0.024	2	210	660	—	
	L-1	37.82103°	140.96093°	7.7	181	28.2	2.4	3.3	2,704	8.4	13.5	40.0	18.2	6.6	13.3	0.36	9.5	27	99	—	
	L-2	37.81558°	140.97628°	7.8	176	22.0	1.3	2.5	2,723	0.2	1.0	65.0	27.4	2.9	3.5	0.30	4.75	14	68	N.D.(0.21)	
Off Iwaki City (Hisanohama)	L-3	37.82178°	140.97643°	7.9	184	21.9	0.8	1.4	2,761	0.2	0.8	64.1	32.8	0.7	1.4	0.30	4.75	3.4	10	—	
	M-1	37.17313°	141.07577°	7.9	245	28.6	2.0	1.9	2,738	0.0	0.4	1.6	82.7	7.5	7.8	0.15	2	30	130	—	
	M-2	37.19920°	141.08567°	8.0	238	26.5	1.8	1.7	2,776	0.9	0.8	2.7	92.0	1.6	2.0	0.16	9.5	24	84	N.D.(0.18)	
	M-3	37.23214°	141.09353°	8.0	243	27.9	2.1	1.8	2,753	1.2	0.7	2.6	87.2	4.1	4.2	0.16	9.5	42	130	—	

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)				
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137					
A-2	Harase River	2014/8/28	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Countable number	0.056	—	—	—	214	54	160	—			
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	82	0.028	Larva	—	—	—	57	13	44	—		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	54	0.027	Larva (dragonfly larva)	—	—	—	21.7	6.7	15	—		
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	Neocaridina sp.	75.3	0.13	Imago	—	—	—	34.1	8.1	26	—		
			Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semilucospira libertina</i>	Semilucospira libertina	66	0.11	Imago	—	—	Molluscan body	25.4	6.4	19	—		
			Vertebrata	Osteichthyes	Cypriniformes	Pleurinidae	<i>Nipponocypris temminckii</i>	Dark chub	46	0.42	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	18.2	4.2	14	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	21	0.057	Mature fish (1-year-old)	Some (details unknown)	Viscera removed	12.9	3.6	9.3	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.048	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	32.6	8.6	24	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	19	0.31	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	18.5	4.5	14	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	43	0.080	Mature fish	—	—	—	14.8	3.8	11	—		
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	12	0.23	Immature fish (1-year-old)	Aquatic insects	Viscera removed	22.9	5.9	17	—			
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.13	Mature fish (2-year-old)	Weatherfish	Viscera removed	32.5	7.5	25	—			
			Vertebrata	Amphibia	Anura	—	—	—	Frogs	35	0.021	Larva (tadpoles)	—	—	—	257	67	190	—	
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	Pelophylax porosus porosus	8	0.031	Imago	—	—	—	72	18	54	—		
			Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Daruma pond frog	4	0.036	Imago	—	—	—	19.1	5.1	14	—		
			—	—	—	—	—	—	fallen leaves	Countable number	0.48	—	—	—	—	176	46	130	—	
			B-2	Abukuma River mainstream	2014/8/5	Vertebrata	Osteichthyes	Osmertiiformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	30	0.68	Immature fish	Some (details unknown)	Viscera removed	16.2	4.2	12	—
						Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.37	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	18.8	4.8	14	—
					2014/8/7	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.3	Mature fish (3-year-old)	Crabs	Viscera removed	52	13	39	0.27
						Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.24	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	27.1	7.1	20	—
2014/8/25	Vertebrata	Osteichthyes			Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	2	1.0	Mature fish	Collepteran	Viscera removed	27.8	6.8	21	—			
	Vertebrata	Osteichthyes			Osmertiiformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	30	1.1	Immature fish	Some (details unknown)	Viscera removed	18.7	4.7	14	—			
2014/9/4	Vertebrata	Osteichthyes			Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.23	Mature fish	Fish	Viscera removed	28.9	6.9	22	—			
	Vertebrata	Osteichthyes			Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	2.8	Mature fish (6-year-old)	Some (details unknown)	Viscera removed	34.2	9.2	25	0.33			
2014/9/6	Vertebrata	Osteichthyes			Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.0	Mature fish (9-year-old)	Some (details unknown)	Viscera removed	51	13	38	0.30			
	Vertebrata	Osteichthyes			Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	1.4	Mature fish (4-year-old)	Some (details unknown)	Viscera removed	28.1	7.1	21	0.26			
B-3	Surikami River	2014/8/29	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Countable number	0.059	—	—	—	149	39	110	—			
			Angiospermae	Monocotyledoneae	Alismatales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	Countable number	0.38	—	—	—	—	30.3	7.3	23	—		
			Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia japonica</i>	Isonychidae	101	0.0078	Larva	—	—	—	67	17	50	—		
			Arthropod	Insecta	Ephemeroptera	Heptageniidae	Heptageniidae	431	0.0086	Larva	—	—	—	12	N.D.(4.1)	12	—			
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	256	0.0092	Larva	—	—	—	161	41	120	—		
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	530	0.040	Larva	—	—	—	125	32	93	—		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	81	0.042	Larva (dragonfly larva)	—	—	—	5.3	N.D.(1.7)	5.3	—		
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	30	0.022	Larva	—	—	—	16.3	4.3	12	—		
			Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.045	Imago	—	—	—	27.6	7.6	20	—		
			Vertebrata	Osteichthyes	Scombriformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	2	0.043	Mature fish (2-year-old)	Aquatic insects	Viscera removed	9.5	2.7	6.8	—			
			Vertebrata	Osteichthyes	Osmertiiformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	11	0.41	Immature fish	Some (details unknown)	Viscera removed	20.1	5.1	15	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	16	0.22	Mature fish (2-year-old)	Algae	Viscera removed	13.3	3.3	10	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	8	0.075	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	20.1	5.1	15	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.40	Mature fish	Some (details unknown)	Viscera removed	37.3	9.3	28	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Pale chub	5	0.056	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	21.3	5.3	16	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	19	0.044	Mature fish	—	—	—	11.0	2.6	8.4	—		
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	33	0.44	Immature fish (under 1-year-old)	Aquatic insects	Viscera removed	9.8	2.5	7.3	—			
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	15	0.49	Immature fish (under 1-year-old)	Fish, aquatic insects	Viscera removed	16.2	4.2	12	—			
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.21	Mature fish (2-year-old)	Aquatic insects	Viscera removed	37.6	9.6	28	—			
			Vertebrata	Actinopterygii	Siluriformes	Bagridae	<i>Pseudobagrus tokiensis</i>	Cut-tailed bullhead	3	0.31	Mature fish	Some (details unknown)	Viscera removed	14.6	3.6	11	—			
			Vertebrata	Amphibia	Anura	—	—	—	Frogs	42	0.028	Larva (tadpole)	—	—	—	268	68	200	—	
			Vertebrata	Amphibia	Anura	Rana	<i>Rana catesbeiana</i>	American Bullfrog	2	0.030	Imago	—	—	—	47	13	34	—		
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	4	0.023	Imago	—	—	—	28.7	7.7	21	—		
			—	—	—	—	—	—	fallen leaves	Countable number	0.64	—	—	—	—	120	31	89	—	
			2014/9/23	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	1.9	Mature fish	Fish	Viscera removed	117	30	87	0.29		

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*5: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*9: Activity concentrations include counting errors, but the details are omitted here.

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)					
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137						
Idagawa River	C-6	—	—	—	—	—	River bottom materials (incl. algae)	Countable number	0.024	—	—	—	203	53	150	—					
							Stenopsyche marmorata	34	0.0064	Larva	—	—	—	52	12	40	—				
							Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	155	0.024	Larva (dragonfly larva)	—	—	13.9	4.1	9.8	—
							Arthropod	Insecta	Odonata	Corduliidae	Macromia amphigena	Macromia amphigena									
							Arthropod	Insecta	Odonata	Gomphidae	Asiagomphus melanops	Asiagomphus melanops									
							Arthropod	Insecta	Odonata	Gomphidae	Davidius nanus	Davidius nanus									
							Arthropod	Insecta	Odonata	Gomphidae	Davidius sp.	Davidius									
							Arthropod	Insecta	Odonata	Gomphidae	Onychogomphus viridicostus	Onychogomphus viridicostus									
							Arthropod	Insecta	Odonata	Gomphidae	Sieboldius albardae	albardae									
							Arthropod	Insecta	Odonata	Gomphidae	Sinogomphus flavolimbatus	Sinogomphus flavolimbatus									
							Arthropod	Insecta	Odonata	Gomphidae	Stylogomphus suzukii	Stylogomphus suzukii									
							Arthropod	Insecta	Megaloptera	Corvalidae	Protohermes grandis	Protohermes grandis									
							Arthropoda	Malacostraca	Decapoda	Procambarus	Procambarus clarkii	Red swamp crawfish	2	0.016	Imago	—	—	23.2	7.2	16	—
							Arthropod	Malacostraca	Decapoda	Grapsidae	Eriocheir japonica	Japanese mitten crab	7	0.18	Imago	—	—	22.1	6.1	16	—
							Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp	125	0.019	Imago	—	—	43	11	32	—
							Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp	125	0.019	Imago	—	—	49	13	36	—
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Nipponocypris temminckii	Pale chub	5	0.021	Immature fish (1-year-old)	Many unknown content	Viscera removed	19.5	4.5	15	—
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	1	0.021	Immature fish (1-year-old)	Little	Viscera removed	37.8	9.8	28	—
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Zacco platypus	Dark chub	29	0.16	Immature fish (1-year-old)	Many unknown content	Viscera removed	19.4	5.4	14	—
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	Rhinogobius	4	0.015	Mature fish	—	—	57	15	42	—
—	—	—	—	—	—	Countable number	0.60	—	—	—	168	38	130	—							

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)					
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137						
Mangawa River	D-4a D-4b	—	—	—	—	—	River bottom materials (incl. algae)	Countable number	0.046	—	—	—	390	100	290	—					
							Small pondweed	Countable number	0.45	—	—	—	12.8	2.8	10	—					
							Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	258	0.036	Larva	—	—	189	49	140	—
							Arthropod	Insecta	Odonata	Corduliidae	Macromia amphigena	Macromia amphigena	465	0.044	Larva (dragonfly larva)	—	—	37	10	27	—
							Arthropod	Insecta	Odonata	Cordulegastridae	Anotogaster sieboldii	Anotogaster sieboldii									
							Arthropod	Insecta	Odonata	Gomphidae	Davidius nanus	Davidius nanus									
							Arthropod	Insecta	Odonata	Gomphidae	Davidius sp.	Davidius									
							Arthropod	Insecta	Odonata	Gomphidae	Nihonogomphus viridis	Nihonogomphus viridis									
							Arthropod	Insecta	Odonata	Gomphidae	Onychogomphus viridicostus	Onychogomphus viridicostus									
							Arthropod	Insecta	Odonata	Gomphidae	Sieboldius albardae	albardae									
							Arthropod	Insecta	Odonata	Libellulidae	Orthetrum albistylum	Common skimmer									
							Arthropod	Insecta	Odonata	Aeshnidae	Anax parthenope julius	Anax parthenope									
							Arthropod	Insecta	Megaloptera	Corvalidae	Protohermes grandis	Protohermes grandis									
							Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp	733	0.082	Imago	—	—	36.4	9.4	27	—
							Mollusca	Gastropoda	Sorbocoencha	Pleuroceridae	Semisulcospira libertina	Semisulcospira libertina	22	0.055	Imago	—	—	77	22	55	—
							Vertebrata	Osteichthyes	Osmerniformes	Osmernidae	Plecoglossus altivelis	Sweetfish	4	0.034	Immature fish	Some (details unknown)	Viscera removed	138	38	100	—
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	R. sp. CB	20	0.033	Mature fish	—	—	53	15	38	—
							Vertebrata	Amphibia	Anura	Rana	Rana catesbeiana	American Bullfrog	1	0.030	Imago	—	—	94	24	70	—
							—	—	—	—	—	—	Countable number	0.67	—	—	—	113	32	81	—
							—	—	—	—	—	—	Countable number	0.26	—	—	—	386	96	290	—
—	2014/9/14	—	—	—	—	Countable number	0.26	—	—	—	317	77	240	—							

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)		
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Niida River	E-2a E-2b	—	Algae/plant	—	—	—	River bottom materials (incl. algae)	Creditable number	0.040	—	—	—	470	120	350	—		
			Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia japonica</i>	Isonychiidae	642	0.028	Larva	—	—	—	970	260	710	—
			Arthropod	Insecta	Ephemeroptera	Heptageniidae	Heptageniidae	343	0.0056	Larva	—	—	—	247	67	180	—	
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	192	0.028	Larva	—	—	—	830	210	620	—
			Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena</i>	Macromia amphigena	132	0.023	Larva (dragonfly larva)	—	—	—	111	30	81	—
			Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	Asiagomphus melanocephalus										
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Davidius										
			Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus	10	0.0062	Larva	—	—	—	189	49	140	—
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae										
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	16	0.0057	Imago	—	—	—	33	11	22	—
			Arthropoda	Arachnida	Araneae	Araneidae	<i>Argiope bruennichi</i>	Wasp spider	4	0.055	Imago	—	—	—	244	64	180	—
			Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crayfish	30	0.26	Imago	—	—	—	229	59	170	—
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	31	0.062	Imago	—	—	—	89	22	67	—
			Mollusca	Gastropoda	Sorbecoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	18	0.34	Immature fish	Some (details unknown)	Viscera removed	203	53	150	—	
			Vertebrata	Osteichthyes	Osmerriformes	Osmerridae	<i>Plecoglossus altivelis</i>	Sweetfish	3	0.012	Mature fish (1-year-old)	Some (details unknown)	Viscera removed	161	41	120	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Achellognathus melanogaster</i>	Achellognathus melanogaster	6	0.12	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	206	56	150	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.080	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	110	30	80	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	1	0.020	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	151	41	110	—	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	4	0.060	Immature fish (1-year-old)	Some (details unknown)	Viscera removed	198	48	150	—	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	9	0.028	Mature fish	—	—	—	254	64	190	—
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	R. sp. CB	3	0.048	Larva (tadpoles)	—	—	—	1,880	480	1,400	—
			Vertebrata	Amphibia	Anura	Rana	<i>Rana catesbeiana</i>	American Bullfrog	Creditable number	0.57	—	—	—	—	1,150	300	850	—

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)		
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Dia River	F-1	—	Algae/plant	—	—	—	River bottom materials (incl. algae)	Creditable number	0.046	—	—	—	550	130	420	—		
			Angiosperms	Monocots	Poales	Poaceae	<i>Phragmites australis</i>	Common reed	Creditable number	0.17	—	—	—	314	74	240	—	
			Bryopsida	Sphagnopsida	Sphagnales	Sphagnaceae	<i>Sphagnum</i> sp.	Sphagnum	Creditable number	0.25	—	—	—	4,400	1,100	3,300	—	
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	66	0.015	Larva	—	—	—	820	210	610	—
			Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena</i>	Macromia amphigena	163	0.030	Larva (dragonfly larva)	—	—	—	440	110	330	—
			Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	Asiagomphus melanocephalus										
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Davidius										
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	62	0.022	Larva	—	—	—	243	63	180	—
			Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
			Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus	12	0.021	Imago	—	—	—	850	220	630	—
			Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	236	0.049	Imago	—	—	—	660	180	480	—
			Mollusca	Gastropoda	Sorbecoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	18	0.014	Imago	—	—	—	266	66	200	—
			Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	6	0.011	Immature fish/Mature fish	Some (details unknown)	Viscera removed	870	230	640	—	
			Vertebrata	Osteichthyes	Osmerriformes	Osmerridae	<i>Plecoglossus altivelis</i>	Sweetfish	3	0.061	Immature fish	Some (details unknown)	Viscera removed	1,280	320	960	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	15	0.13	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	430	110	320	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.025	Mature fish (1-year-old)	Some (details unknown)	Viscera removed	770	200	570	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	2	0.013	Mature fish (1-year-old)	Some (details unknown)	Viscera removed	283	73	210	—	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Rhinogobius	10	0.042	Mature fish	Some (details unknown)	Viscera removed	1,470	370	1,100	—	
									Creditable number	0.34	—	—	—	—	550	140	410	—

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)		
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Hayama	G-4	2014/9/1	In the lake	Algae/plant	—	—	—	Plankton	Considerable number	0.035	—	—	—	27.4	6.4	21	—	
			Inflowing rivers	Algae/plant	—	—	—	River bottom materials (incl. algae)	Considerable number	0.069	—	—	—	—	1,480	380	1,100	—
			Inflowing rivers	Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena</i>	Macromia amphigena	240	0.035	Larva (dragonfly larva)	—	—	74	21	53	—
			Inflowing rivers	Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius fujiana</i>	Davidius fujiana									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatatus</i>	Sinogomphus flavolimbatatus									
			Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
			Inflowing rivers	Arthropod	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei</i>	Planaeschna milnei									
			Inflowing rivers	Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	40	0.020	Larva	—	—	53	15	38	—
			Inflowing rivers	Arthropoda	Malacostraca	Decapoda	Altyidae	<i>Paratya improvisa</i>	Freshwater shrimp	89	0.017	Imago	—	—	160	40	120	—
			Inflowing rivers	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.047	Mature fish (2-year-old)	Many unknown content	Viscera removed	37.9	8.9	29	—
			Inflowing rivers	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.021	Immature fish (under 1-year-old)	Many unknown content	Viscera removed	72	18	54	—
			Inflowing rivers	—	—	—	—	—	fallen leaves	Considerable number	0.49	—	—	—	810	210	600	—
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorffii</i>	Carassius auratus langsdorffii	1	0.42	Mature fish (6-year-old)	Many unknown content	Viscera removed	119	32	87	—
In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.16	Immature fish (1-year-old)	Little	Viscera removed	147	37	110	—			

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Lake Akimoto	H-1 H-2 H-3 (Including the Nakatsu River area) Near the H-4	2014/8/26	In the lake	Algae/plant	—	—	—	Plankton	Considerable number	0.013	—	—	—	94	24	70	—		
			In the lake	Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	Considerable number	0.24	—	—	—	9.7	2.4	7.3	—	
			In the lake	Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	71	0.069	Larva (dragonfly larva)	—	—	—	13.5	3.7	9.8	—
			In the lake	Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semilucospira libertina</i>	Semilucospira libertina	180	0.19	Imago	—	—	—	54	15	39	—
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	21	0.060	Immature fish (1-year-old)	Some (details unknown)	Viscera removed	8.5	2.5	6.0	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	3	0.060	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	23.4	6.4	17	—	
			In the lake	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	2	0.012	Imago	—	—	—	6.2	N.D.(3.1)	6.2	—
			In the lake	Vertebrata	Amphibia	Anura	—	—	Frogs	9	0.011	Larva (tadpoles)	—	—	—	46	13	33	—
			Inflowing rivers	—	—	—	—	—	fallen leaves	Considerable number	0.40	—	—	—	61	15	46	—	
			In the lake	Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	30	1.4	Imago	—	—	—	53	13	40	8.4
			In the lake	Vertebrata	Osteichthyes	Osmerniformes	Osmernidae	<i>Hypomesus nipponensis</i>	Japanese smelt	30	0.16	Mature fish	Some (details unknown)	Viscera removed	24.2	6.2	18	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	8	0.21	Immature fish (2-year-old)	Some (details unknown)	Viscera removed	42	11	31	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	13	7.7	Mature fish (6-year-old)	Some (details unknown)	Viscera removed	55	13	42	1.2	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.2	Mature fish (4-year-old)	Some (details unknown)	Viscera removed	41	10	31	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	4	0.80	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	59	15	44	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	1.1	Mature fish (4-year-old)	Green algae	Viscera removed	71	18	53	—	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	5	1.6	Mature fish (2-year-old)	Fish (lake smelt, etc.)	Viscera removed	51	13	38	—	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.25	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	70	17	53	—	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	1.7	Mature fish (3-year-old)	Fish	Viscera removed	92	23	69	—	
			In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	5	1.2	Mature fish (2-year-old)	Crustaceans	Viscera removed	80	20	60	—	
			In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	3.9	Mature fish (4-year-old)	Crustaceans, aquatic insects, insects	Viscera removed	107	26	81	1.2	

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)		
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Inawashiro	2014/8/27	—	—	—	—	—	fallen leaves	Countable number	0.18	—	—	—	31.0	8.0	23	—		
	2014/9/3	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.11	Immature fish	Some (details unknown)	Viscera removed	18.7	4.7	14	—		
	2014/9/21	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.2	Mature fish	Some (details unknown)	Viscera removed	49	12	37	—		
	I-1 I-2 (north lakeside)	2014/9/25	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	3	0.22	Immature fish (2-year-old)	Some (details unknown)	Viscera removed	26.4	6.4	20	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	4	1.9	Mature fish (10-year-old)	Some (details unknown)	Viscera removed	30.6	7.6	23	0.55	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	1.6	Mature fish (6-year-old)	crustaceans	Viscera removed	31.8	7.8	24	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.66	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	79	19	60	—	
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	2	0.56	Mature fish (2-year-old)	Fish, insects	Viscera removed	101	26	75	—	
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	1.4	Mature fish	Some (details unknown)	Viscera removed	100	24	76	—	
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.77	Mature fish	Some (details unknown)	Viscera removed	8.5	2.1	6.4	—	
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.77	Mature fish	Some (details unknown)	Viscera removed	8.5	2.1	6.4	—	
	J-1 (south lakeside)	2014/8/27	Algae/plant	—	—	—	—	Plankton	Countable number	0.022	—	—	—	7.8	1.7	6.1	—	
			Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	Countable number	1.3	—	—	—	3.99	0.89	3.1	—	
			Magnoliophyta	Magnoliopsida	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	Countable number	0.85	—	—	—	0.73	N.D.(0.37)	0.73	—	
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon pauceidens</i>	Common prawn	32	0.014	Imago	—	—	—	22.6	5.6	17	—
			Mollusca	Gastropoda	Archaeoglossa	Viviparidae	<i>Bellamya japonica</i>	Japanese mysterysnail	47	0.28	Subadult/Imago	—	Molluscan body	—	28.2	7.2	21	—
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	21	0.070	Mature fish	—	—	—	N.D.	N.D.(1.4)	N.D.(1.1)	—
			Vertebrata	Amphibia	Anura	—	<i>Gomphidae</i>	Frogs	106	0.047	Larva (tadpoles)	—	—	—	39	10	29	—
			Vertebrata	Amphibia	Anura	Rana	<i>Rana porosa porosa</i>	Daruma pond frog	4	0.072	Imago	—	—	—	1.9	N.D.(0.78)	1.9	—
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	54	0.91	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	12.9	3.3	9.6	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	5	0.082	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	8.4	2.0	6.4	—	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	0.069	Immature fish (under 1-year-old)	Some (details unknown)	Viscera removed	20.7	5.7	15	—	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.34	Mature fish (3-year-old)	Fish	Viscera removed	60	14	46	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	28	0.22	Immature fish (1-year-old)	Some (details unknown)	Viscera removed	5.8	1.4	4.4	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	25	0.55	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	16.9	3.9	13	—	
			2014/9/4	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	13	0.73	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	32.6	8.6	24	—
	2014/9/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	16	1.8	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	30.4	7.4	23	0.20		
	2014/9/6	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	3	0.29	Immature fish (2-year-old)	Some (details unknown)	Viscera removed	18.5	4.5	14	—		
	2014/9/6	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	1.5	Mature fish (5-year-old)	Some (details unknown)	Viscera removed	68	16	52	—		
	2014/9/6	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.8	Mature fish (3-year-old)	Fish, aquatic insects	Viscera removed	58	14	44	0.25		

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										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137		
Offshore of Abukuma River Estuary	Surrounding sea area K off the mouth of the Abukuma River	—	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	15	3.5	Imago	—	—	0.43	N.D.(0.26)	0.43	0.059
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Platichthys stellatus</i>	Starry flounder	3	2.1	Mature fish (5-year-old)	—	Viscera removed	1.91	0.51	1.4	—
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	4.8	Mature fish (4-year-old)	Fish	Viscera removed	2.89	0.69	2.2	0.019
			Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenoei</i>	Skate	5	5.6	Mature fish	Fish	Viscera removed	2.61	0.61	2.0	N.D.(0.012)

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Off-Sanuki City	L-1 L-2 L-3	Matsukawaura	Algae/plant	—	—	—	—	Plankton	Countable number	0.011	—	—	—	105	26	79	—		
			Chlorophyta	Ulvophyceae	Ulvales	Ulvaceae	<i>Ulva pertusa</i>	Ulva pertusa	Countable number	0.35	—	—	—	—	1.06	0.36	0.70	—	
			Angiospermae	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	eel grass	Countable number	1.3	—	—	—	—	0.63	0.13	0.50	—	
			Arthropoda	Malacostraca	Mysida	Mysidae	Mysidae	<i>Mysid</i>	Mysidae	283	0.33	Imago	—	—	—	3.39	0.79	2.6	—
			Arthropod	Malacostraca	Decapoda	Alpheus	Alpheidae	<i>Alpheus brevirostratus</i>	Alpheus	24	0.043	Imago	—	—	—	2.2	N.D.(1.3)	2.2	—
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Palaemon	110	0.020	Imago	—	—	—	N.D.	N.D.(2.6)	N.D.(2.1)	—	
			Arthropod	Malacostraca	Malacostraca	Eriocheir	<i>Hemigrapsus</i> sp.	Japanese shore crab	239	0.52	Imago	—	—	—	—	8.0	2.1	5.9	—
			Arthropod	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	3	0.12	Imago	—	—	—	—	1.4	N.D.(0.79)	1.4	—
			Mollusca	Bivalvia	Pterioida	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster	45	3.2	Imago	—	—	Molluscan body	2.51	0.61	1.9	—	
			Mollusca	Bivalvia	Veneridae	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	68	2.3	Imago	—	—	Molluscan body	3.53	0.83	2.7	—	
			Vertebrata	Osteichthyes	Pleuronectiformes	—	Pleuronectiformes	<i>Pleuronectiformes</i>	Pleuronectiformes	3	0.023	Immature fish	—	—	—	N.D.	N.D.(1.6)	N.D.(1.4)	—
			Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	11	0.030	Immature fish	—	—	—	—	2.8	N.D.(1.3)	2.8	—
			Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Pholis crassispina	3	0.0056	Immature fish	—	—	—	—	N.D.	N.D.(6.9)	N.D.(6.4)	—
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gobiidae	Gobiidae	16	0.038	Immature fish/mature fish	—	—	—	—	2.2	N.D.(1.1)	2.2	—
			Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	84	0.47	Immature fish	—	—	—	—	58	14	44	—
			Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Liza haematocheilus</i>	Haarder	5	0.014	Immature fish	—	—	—	—	15.9	3.9	12	—

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight(kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90(Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Off-Hanaka City	M-1 M-2 M-3 M-4	Hisanohama Coastal areas	Brown algae	Phaeophyceae	Laminariales	Lessoniaceae	<i>Eisenia bicyclis</i>	Eisenia	Countable number	0.32	—	—	—	0.50	N.D.(0.29)	0.50	—		
			Echinoderm	Echinoidea	Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	30	3.0	Imago	—	—	—	3.08	0.78	2.3	12	
			Offshore of Hisanohama	Echinodermata	Asteroida	Forcipulatida	Asteriidae	<i>Distolasterias nipon</i>	Japan starfish	6	1.5	Imago	—	—	—	0.44	N.D.(0.32)	0.44	—
			Offshore of Hisanohama	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	1	0.17	Imago	—	—	—	0.93	N.D.(0.59)	0.93	—
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonicichthys spinosus</i>	Gurnard	18	1.5	Mature fish (3-year-old)	—	Viscera removed	1.17	0.43	0.74	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Kareius bicoloratus</i>	Stone flounder	2	0.63	Mature fish (3-year-old)	Some (details unknown)	Viscera removed	3.13	0.83	2.3	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Pleuronectes yokohamae</i>	Marbled sole	3	1.3	Mature fish (3-year-old)	Annelida	Viscera removed	6.0	1.6	4.4	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Pseudopleuronectes herzensteini</i>	Yellow striped flounder	2	0.080	Immature fish (1-year-old)	Some (details unknown)	Viscera removed	3.0	1.3	1.7	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	1.7	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	1.1	N.D.(0.38)	1.1	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthidae	<i>Pseudorhombus cinnamomeus</i>	Cinnamon flounder	2	0.092	Mature fish (1-year-old)	Some (details unknown)	Viscera removed	2.6	1.1	1.5	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Evynnis japonica</i>	Crimson sea-bream	4	1.6	Mature fish (4-year-old)	Some (details unknown)	Viscera removed	3.79	0.99	2.8	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	2	2.0	Mature fish (5-year-old)	Shellfish	Viscera removed	4.7	1.3	3.4	0.036	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Perciformes	Sciaenidae	<i>Pennahia argentata</i>	White croaker	1	0.29	Mature fish (4-year-old)	Some (details unknown)	Viscera removed	2.77	0.77	2.0	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	1	0.35	Mature fish	—	Viscera removed	1.42	0.56	0.86	—	
			Offshore of Hisanohama	Vertebrata	Osteichthyes	Tetraodontidae	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure Puffer	19	3.1	Mature fish	Crustaceans,shellfish	Viscera removed	4.8	1.1	3.7	—	
			Offshore of Hisanohama	Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenoei</i>	Skate	3	5.0	Mature fish	Crustaceans	Viscera removed	30.4	7.4	23	0.20	
			Offshore of Hisanohama	Vertebrata	Chondrichthyes	Triakidae	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	3	3.9	Mature fish	Crustaceans	Viscera removed	10.1	2.6	7.5	0.040	
			Hisanohama Coastal areas	2014/9/6	Mollusca	Gastropoda	Archaeogastropoda	<i>Haliotis asinina</i>	<i>Haliotis discus</i>	Abalone	5	1.1	Imago	—	Molluscan body	0.57	N.D.(0.35)	0.57	—

*1: Organisms were collected in or around the targeted water areas.

*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

*3: For a sample made of multiple types of aquatic organisms, the name of the dominant one largest in number is underlined.

*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*5: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*9: Activity concentrations include counting errors, but the details are omitted here.