

○ Results (water)

Location		2015 August 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	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.4	1.9	5.3	8.5	15.5	0.08	2.1	15	8.1	0.016	0.062	0.0011
	A-1(Deep layer)	37.6210°	140.5218°	7.4	2.2	5.8	8.4	18.0	0.09	2.4	22	11.4	0.032	0.12	-
	A-2	37.5673°	140.3946°	7.5	0.8	4.6	8.6	13.4	0.07	1.8	10	4.1	0.017	0.062	-
	B-1	37.7843°	140.4924°	7.6	1.1	4.6	8.7	15.9	0.08	2.1	12	7.4	0.012	0.050	-
	B-2	37.8121°	140.5058°	7.7	1.1	4.3	8.3	16.4	0.08	2.1	11	6.9	0.013	0.052	-
	B-3	37.8182°	140.4679°	7.6	0.6	3.7	8.5	10.8	0.06	1.8	5	4.4	0.0049	0.020	-
Uda River	C-1	37.7953°	140.7459°	7.6	<0.5	2.2	8.9	12.3	0.07	0.8	2	1.3	0.0099	0.041	-
	C-2	37.7718°	140.7290°	7.6	0.5	5.2	8.6	11.5	0.06	2.8	3	3.1	0.014	0.057	-
	C-3	37.7792°	140.8040°	7.7	0.8	4.4	8.7	10.0	0.06	2.0	5	4.6	0.032	0.13	-
	C-4	37.7687°	140.8443°	7.8	<0.5	3.3	9.4	10.2	0.06	1.6	2	2.6	0.014	0.054	0.00078
	C-5	37.7646°	140.8603°	7.9	0.6	3.1	9.0	10.7	0.06	1.5	2	2.4	0.011	0.040	-
	C-6	37.7764°	140.8877°	7.9	0.6	3.0	9.1	12.2	0.07	1.5	1	1.5	0.0063	0.023	-
Mano River	D-1	37.7331°	140.9254°	7.6	<0.5	2.3	11.6	13.3	0.07	0.9	2	0.8	0.011	0.039	0.00096
	D-2	37.7095°	140.9566°	7.3	0.7	4.2	9.4	14.4	0.08	1.3	12	16.8	0.019	0.072	-
	D-3	37.7051°	140.9623°	7.2	0.7	4.0	9.2	14.7	0.08	1.3	12	15.6	0.015	0.058	-
	D-4a	37.7308°	140.9081°	7.4	<0.5	1.9	8.7	12.6	0.07	0.8	2	1.0	0.0084	0.029	-
	D-4b	37.7312°	140.9096°	7.5	<0.5	2.0	8.7	12.6	0.07	0.8	1	0.9	0.0088	0.032	-
	D-5	37.7214°	140.8889°	7.5	<0.5	2.8	9.4	9.8	0.05	1.0	2	1.5	0.012	0.048	-
Niida River	E-1	37.6609°	140.9115°	8.0	<0.5	2.5	9.1	7.7	0.04	1.0	2	2.3	0.025	0.097	0.0021
	E-2a	37.6640°	140.9447°	8.0	<0.5	2.6	10.6	8.7	0.05	1.2	2	2.5	0.025	0.093	-
	E-2b	37.6635°	140.9452°	7.6	<0.5	4.5	9.8	8.3	0.05	1.1	3	3.0	0.034	0.13	-
	E-3	37.6444°	141.0018°	7.4	1.7	3.2	8.3	11.9	0.06	1.3	3	3.7	0.025	0.095	-
	E-4	37.6485°	140.9630°	7.6	<0.5	2.8	8.6	9.0	0.05	1.1	4	3.0	0.022	0.082	-
	E-5	37.6652°	140.9169°	7.6	<0.5	2.7	9.1	7.7	0.04	1.0	2	2.2	0.029	0.11	-
Ota River	F-1	37.5975°	140.9252°	7.5	<0.5	3.1	8.7	5.8	0.03	1.2	2	1.3	0.076	0.28	-
	F-2	37.6016°	140.9423°	7.3	<0.5	2.3	8.4	6.6	0.04	0.9	1	1.0	0.087	0.33	0.0033
	F-3	37.6045°	140.9636°	7.4	<0.5	2.7	8.2	6.7	0.04	1.0	4	1.9	0.083	0.32	-
	F-4	37.6070°	140.9720°	6.9	<0.5	1.6	7.9	7.4	0.04	0.6	1	0.8	0.048	0.18	-
	F-5	37.6022°	140.9868°	7.1	<0.5	3.3	8.4	8.3	0.05	1.6	3	2.3	0.042	0.16	-
	F-6	37.5953°	141.0123°	7.1	0.5	2.6	8.1	131.5	0.69	2.3	4	3.4	0.034	0.14	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.5	1.1	4.6	8.6	7.2	0.04	2.0	2	2.1	0.011	0.042	-
	G-1(Deep layer)	37.7321°	140.8127°	7.6	1.3	4.3	7.9	7.2	0.04	1.9	3	2.0	0.015	0.062	0.0012
	G-3(Surface layer)	37.7302°	140.8307°	7.6	0.9	4.5	8.8	7.2	0.04	2.0	3	2.2	0.0096	0.032	-
	G-3(Deep layer)	37.7302°	140.8307°	7.6	0.9	4.5	8.2	7.3	0.04	2.0	3	2.3	0.011	0.040	-
	G-5(Surface layer)	37.7341°	140.8088°	7.7	0.8	4.3	8.4	7.2	0.04	1.8	2	1.8	0.020	0.077	-
	G-5(Deep layer)	37.7341°	140.8088°	7.6	0.9	4.1	8.0	7.4	0.05	1.9	2	2.0	0.011	0.044	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.3	0.6	2.8	8.8	5.8	0.03	1.2	2	2.1	0.0060	0.026	-
	H-1(Deep layer)	37.6575°	140.1264°	6.7	<0.5	2.9	5.7	4.3	0.03	1.3	2	1.5	0.0032	0.012	-
	H-3(Surface layer)	37.6653°	140.1329°	7.3	<0.5	2.5	8.4	5.7	0.04	1.1	2	1.1	0.0041	0.015	-
	H-3(Deep layer)	37.6653°	140.1329°	7.2	<0.5	2.4	8.1	5.6	0.03	1.0	2	1.5	0.0049	0.014	0.0011
	H-5(Surface layer)	37.6523°	140.1568°	7.3	0.5	2.6	8.5	5.7	0.03	1.1	2	1.5	0.0048	0.018	-
	H-5(Deep layer)	37.6523°	140.1568°	7.3	<0.5	2.4	8.3	5.7	0.05	1.3	1	1.3	0.0050	0.018	-
Lake Inawashiro	I-1(Surface layer)	37.5047°	140.1143°	7.2	<0.5	1.4	8.3	11.3	0.06	0.7	1	0.6	0.0026	0.013	-
	I-1(Deep layer)	37.5047°	140.1143°	7.0	<0.5	1.4	8.4	11.4	0.06	0.7	<1	0.4	0.0032	0.013	0.0011
	I-3(Surface layer)	37.5077°	140.0263°	7.0	<0.5	1.6	8.4	11.4	0.06	0.7	2	1.0	0.0035	0.014	-
	I-3(Deep layer)	37.5077°	140.0263°	7.0	<0.5	1.5	8.3	11.4	0.06	0.7	1	0.8	0.0036	0.014	-
	J-1(Surface layer)	37.4203°	140.1008°	7.0	<0.5	1.9	8.9	11.4	0.06	0.8	1	0.8	0.0029	0.012	-
	J-1(Deep layer)	37.4203°	140.1008°	7.0	<0.5	1.6	8.2	11.4	0.06	0.7	<1	0.5	0.0036	0.012	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-2(Surface layer)	38.0455°	140.9401°	8.2	0.6	2.1	8.2	4410	26.11	1.3	6	1.3	0.0021	0.010	-
	K-2(Deep layer)	38.0455°	140.9401°	8.0	<0.5	2.1	7.6	5130	33.36	1.2	8	2.3	0.0033	0.014	0.0011
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	<0.5	2.3	6.6	5040	32.27	1.0	4	0.8	0.0038	0.015	0.0014
	L-3	37.8217°	140.9765°	8.1	0.5	2.6	6.8	5030	32.20	1.2	5	2.1	0.0062	0.023	-
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.2	<0.5	1.4	7.7	5210	33.49	0.8	2	<0.2	N.D.(0.0011)	0.0044	-
	M-2(Deep layer)	37.1996°	141.0853°	8.1	<0.5	1.2	8.4	5250	33.85	0.7	3	1.1	0.0024	0.010	0.00095

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

○ Results (sediments)

Location	2015 August Survey																			
	Latitude	Longitude	pH	Redox potential E _{NHE} (mV)	Water 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) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)				
Abukuma River System	A-1	37.6210°	140.5218°	7.2	116	20.0	1.1	1.9	2.664	16.7	44.3	32.3	3.1	1.3	2.3	1.0	19	32	120	N.D.(0.13)
	A-2	37.5673°	140.3946°	6.9	118	30.8	2.8	6.2	2.641	7.9	25.8	39.9	10.3	8.4	7.7	0.58	9.5	95	370	-
	B-1	37.7843°	140.4924°	7.3	286	14.7	1.2	2.2	2.666	29.4	42.4	14.5	8.0	2.3	3.4	1.4	19	18	91	-
	B-2	37.8121°	140.5058°	7.2	289	27.1	2.0	2.3	2.691	0.1	1.0	44.0	47.5	3.1	4.3	0.23	4.8	66	290	-
Uda River	B-3	37.8182°	140.4679°	7.1	225	14.2	1.1	1.9	2.631	33.0	43.9	19.6	1.6	0.7	1.2	1.5	9.5	21	91	-
	C-1	37.7953°	140.7459°	7.0	257	29.5	5.2	5.4	2.801	7.2	23.2	46.1	18.6	2.1	2.8	0.49	9.5	210	850	-
	C-2	37.7718°	140.7290°	6.9	52	59.1	12.0	28.2	2.701	1.1	2.2	19.0	16.4	25.7	35.6	0.024	9.5	430	1600	-
	C-4	37.7687°	140.8443°	7.2	281	12.9	1.4	2.2	2.740	47.2	30.9	19.2	2.1	0.3	0.3	1.9	19	130	510	0.36
Mano River	C-5	37.7646°	140.8603°	7.0	175	22.9	2.2	4.5	2.724	25.0	25.2	29.5	8.7	4.9	6.7	0.86	19	180	680	-
	C-6	37.7764°	140.8877°	7.2	230	19.7	2.3	2.2	2.751	15.3	25.7	48.2	8.9	0.6	1.3	4.8	0.69	63	230	-
	D-1	37.7331°	140.9254°	6.8	382	20.5	2.0	2.8	2.720	21.0	30.7	37.7	7.7	1.3	1.6	0.89	9.5	210	860	0.84
	D-2	37.7095°	140.9566°	6.9	382	18.8	1.3	1.9	2.714	30.1	40.5	24.0	3.1	1.0	1.3	1.3	9.5	95	430	-
Niida River	D-3	37.7051°	140.9623°	7.0	384	18.0	1.5	1.6	2.700	23.2	29.6	41.1	5.1	0.5	0.5	0.91	9.5	37	120	-
	D-4a	37.7308°	140.9081°	7.0	389	16.5	1.9	2.3	2.730	28.9	38.3	28.7	3.0	0.5	0.6	1.3	19	240	980	-
	D-5	37.7214°	140.8889°	7.1	386	17.5	1.6	1.8	2.718	19.3	41.5	32.5	5.5	0.6	0.6	1.1	4.8	150	590	-
	E-1	37.6609°	140.9115°	7.2	453	14.3	0.9	1.4	2.673	51.0	42.1	6.5	0.1	0.1	0.2	2.0	19	160	650	0.20
Ota River	E-2a	37.6640°	140.9447°	6.9	36	50.8	8.8	22.8	2.591	13.8	15.1	19.8	13.6	18.9	18.8	0.23	19	2000	8000	-
	E-3	37.6444°	141.0018°	7.1	429	19.3	0.9	1.8	2.672	13.6	37.3	46.0	1.5	0.6	1.0	0.86	4.8	95	360	-
	E-4	37.6485°	140.9630°	6.5	123	20.0	1.2	2.2	2.672	9.4	20.4	63.7	4.0	1.1	1.4	0.62	9.5	130	520	-
	E-5	37.6652°	140.9169°	6.8	392	17.3	1.4	2.2	2.691	28.6	31.7	33.5	0.3	3.0	2.9	1.1	19	280	1100	-
Lake Hayama (Mano Dam)	F-1	37.5975°	140.9252°	6.8	427	18.6	1.2	2.9	2.663	22.9	16.2	39.4	17.6	1.5	2.4	0.60	19	1400	5600	-
	F-2	37.6016°	140.9423°	6.9	477	18.2	0.5	1.4	2.654	47.8	39.2	11.4	0.6	0.4	0.6	1.9	19	640	2600	N.D.(0.14)
	F-3	37.6045°	140.9636°	6.4	404	16.7	0.6	1.4	2.653	29.7	26.3	26.3	13.5	1.8	2.4	1.0	19	380	1600	-
	F-4	37.6070°	140.9720°	6.9	516	10.9	0.4	1.2	2.646	40.7	41.6	15.7	1.5	0.3	0.2	1.7	19	210	810	-
Lake Akimoto	F-5	37.6022°	140.9868°	7.0	288	15.6	0.7	1.5	2.649	30.6	39.5	23.9	3.5	1.2	1.3	4.8	150	630	-	
	G-1	37.7321°	140.8127°	6.4	106	84.1	30.4	116.0	2.293	0.0	0.1	0.1	6.5	62.5	30.8	0.013	2.0	3200	13000	1.5
	G-2	37.7267°	140.8223°	6.5	34	75.9	15.1	43.1	2.555	0.0	0.4	0.4	0.7	42.9	55.6	0.0035	2.0	3200	13000	-
	G-3	37.7302°	140.8307°	6.9	85	53.3	8.5	19.5	2.663	8.9	10.1	15.5	11.4	28.0	26.1	0.047	9.5	1100	4200	-
Lake Inawashiro	G-4	37.7382°	140.8035°	6.7	430	30.3	2.6	3.1	2.718	10.4	25.4	53.5	6.0	0.7	4.0	0.69	19	480	1900	-
	G-5	37.7341°	140.8088°	6.6	202	44.3	7.3	7.1	2.665	15.4	23.0	26.6	16.9	6.7	11.4	0.44	9.5	660	2700	-
	H-1	37.6575°	140.1264°	6.6	39	62.6	9.2	23.2	2.590	0.0	0.1	0.1	0.9	62.3	36.6	0.0088	2.0	19	68	-
	H-2	37.6616°	140.1226°	6.7	25	77.5	13.8	41.7	2.494	0.0	0.0	0.1	0.1	39.0	60.8	0.0025	2.0	330	1300	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	H-3	37.6653°	140.1329°	6.4	26	71.3	16.1	56.2	2.459	0.0	0.1	0.1	9.5	42.6	47.7	0.0063	2.0	490	2100	1.2
	H-4	37.6551°	140.1181°	6.4	-32	64.7	8.2	31.2	2.578	0.0	0.4	1.1	6.4	44.8	47.3	0.0061	2.0	91	410	-
	H-5	37.6523°	140.1568°	6.6	-10	58.4	8.5	33.1	2.608	0.0	0.0	0.3	14.9	44.9	39.9	0.013	2.0	250	970	-
	I-1	37.5047°	140.1143°	6.9	-23	78.3	10.3	33.5	2.542	0.0	0.4	4.7	30.8	41.1	23.0	0.037	2.0	180	660	N.D.(0.25)
Off Soma City (Matsukawaura)	I-2	37.4995°	140.1409°	6.9	-22	71.8	9.2	22.6	2.567	0.0	0.0	0.5	20.4	54.2	24.9	0.035	2.0	140	530	-
	I-3	37.5077°	140.0263°	6.6	39	64.7	8.4	27.1	2.676	0.0	0.2	5.9	28.1	38.8	27.0	0.036	2.0	6.8	36	-
	I-4	37.5160°	140.1092°	6.3	361	21.7	1.5	2.3	2.767	26.0	17.8	44.9	9.4	0.5	1.4	0.73	19	13	51	-
	J-1	37.4203°	140.1008°	6.4	223	32.1	1.7	2.7	2.672	0.6	3.9	82.5	12.1	0.1	0.8	0.34	4.8	46	200	-
Off Iwaki City (Hisanojima)	K-1	38.0457°	140.9282°	8.0	195	25.2	1.4	1.2	2.716	0.0	3.4	61.7	32.3	1.1	1.5	0.33	2.0	5.7	22	-
	K-2	38.0455°	140.9401°	7.6	171	48.3	6.3	11.4	2.732	0.0	0.1	2.0	54.4	29.3	14.2	0.090	2.0	150	530	N.D.(0.15)
	K-3	38.0458°	140.9518°	7.7	-21	49.6	6.0	9.0	2.741	0.0	0.0	0.4	21.6	57.1	20.9	0.040	2.0	69	280	-
	L-1	37.8210°	140.9610°	7.8	-72	33.9	3.4	6.4	2.699	2.1	5.2	24.6	37.6	14.1	16.4	0.16	9.5	45	160	-
Off Iwaki City (Hisanojima)	L-2	37.8155°	140.9763°	7.7	102	20.4	1.1	1.4	2.746	1.5	7.1	80.9	9.1	0.5	0.9	0.42	9.5	1.4	6.2	N.D.(0.15)
	L-3	37.8217°	140.9765°	7.8	125	26.8	1.3	2.5	2.715	0.0	0.5	54.4	37.7	2.9	4.5	0.27	4.8	8.1	36	-
	M-1	37.1736°	141.0788°	7.9	190	27.6	2.0	1.6	2.784	0.0	1.3	3.6	90.8	2.1	2.2	0.14	2.0	13	46	-
Off Iwaki City (Hisanojima)	M-2	37.1996°	141.0853°	7.9	190	25.3	1.7	2.0	2.779	0.0	0.6	3.3	91.3	2.6	2.2	0.14	2.0	8.9	41	N.D.(0.14)
	M-3	37.2324°	141.0935°	7.9	163	28.1	1.5	1.3	2.768	0.0	0.3	1.6	89.3	4.3	4.5	0.13	2.0	13	48	-

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

Location	Sampling point	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						
Abukuma River System	A-2	Harase River	2015/8/25	Phycohyta	-	-	-	Riverbed Deposits (include algae)	-	0.071	-	-	-	175	35	140	-					
				Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	-	-	-	-	-	-	-	-	-	-			
				Arthropod	Insecta	Odonata	Cordulegasteridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	78	0.026	Larva (dragonfly larva)	-	-	-	25.1	5.1	20	-			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Mallinotomus viridicostus</i>	Oyochomphus viridicostus	-	-	-	-	-	-	-	-	-	-			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	-	-	-	-	-	-	-	-	-	-			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanoops</i>	Asiagomphus melanoops	-	-	-	-	-	-	-	-	-	-			
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	70	0.027	Larva	-	-	-	27.7	5.7	22	-			
				Arthropod	Malacostraca	Decapoda	Atyidae	-	Neocaridina sp.	249	0.040	Imago	-	-	-	35.2	7.2	28	-			
				Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	40	0.026	Imago	-	-	-	Molluscan body	17.3	3.3	14	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	46	0.46	Mature fish (3-year-old)	-	-	-	12.6	2.6	10	-			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	10	0.043	Mature fish (1-year-old)	-	-	-	13.9	2.9	11	-			
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	2	0.079	Mature fish (1-year-old)	4 Leeches, Formicidae, Moth Larva	Viscera removed	16.4	3.4	13	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	46	0.033	Mature fish	-	-	-	13.9	1.9	12	-			
				Vertebrata	Amphibia	Anura	Ranidae	<i>Glandirana rugosa</i>	Wrinkled Frog	4	0.015	Imago	-	-	-	52	11	41	-			
				Vertebrata	Amphibia	Anura	Ranidae	<i>Pelophylax porosus porosus</i>	Daruma pond frog	-	-	-	-	-	-	-	-	-	-			
				Particulate Organic Mater	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.19	-	-	-	288	58	230	-	
				B-2	Abukuma River	2015/8/21	Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	2	1.6	Mature fish	Lepidostoma japonicum, Hironomus polytricus, Algae, Mollusca	Viscera removed	17.3	3.3	14	0.26	
							Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	6.1	Mature fish	Ephoron shigae (Large volume)	Viscera removed	27.1	5.1	22	0.15	
							Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	81	2.9	Mature fish	-	-	-	116	23	93	0.18
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	1.1	Mature fish (4.5 year-old)	Algae	Viscera removed	17.6	3.6	14	-	
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Hemibarbus barbus</i>	Japanese dace	4	0.12	Mature fish (2-year-old)	Amorphous residue	Viscera removed	13.9	2.9	11	-				
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	14	0.16	Immature fish (1-year-old)	-	-	-	12.5	2.7	9.8	-			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.9	Mature fish (6-year-old)	Empty stomach	Viscera removed	21.5	4.5	17	0.49				
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.8	Mature fish (9-year-old)	Detritus	Viscera removed	58	13	45	0.35				
	Vertebrata	Osteichthyes	Perciformes				Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	1	0.088	Mature fish (3-year-old)	Empty stomach	Viscera removed	13.6	2.6	11	-				
	Vertebrata	Osteichthyes	Perciformes				Centrarchidae	<i>Micropertus dolomieu dolomieu</i>	Small mouth bass	2	2.0	Mature fish (2.5 year-old)	Japanese mitten Crabs	Viscera removed	81	18	63	0.40				
	B-3	Surikami River	2015/8/25	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	2	0.21	Mature fish (4-year-old)	Polyzoon dormant bud	Viscera removed	11.6	2.3	9.3	-				
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	3.4	Mature fish (16-year-old)	Ephoron shigae (Large volume)	Viscera removed	136	26	110	0.17				
				Phycohyta	-	-	-	-	-	-	0.016	-	-	-	-	123	26	97	-			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	21	0.015	Larva (dragonfly larva)	-	-	-	5.2	N.D.(2.6)	5.2	-			
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	221	0.058	Larva	-	-	-	50.9	9.9	41	-			
				Arthropod	Insecta	Megaloptera	Corydalidae	<i>Proterhermes grandis</i>	Proterhermes grandis	54	0.037	Larva	-	-	-	7.6	N.D.(1.4)	7.6	-			
				Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.088	Imago	-	-	-	22.7	4.7	18	-			
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	3	0.024	Mature fish	-	-	-	11.7	3.3	8.4	-			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Zacco platypus	13	0.048	Mature fish (0-year-old)	-	-	-	15.1	3.1	12	-			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	13	0.098	Mature fish (2-year-old)	-	-	-	11.4	2.3	9.1	-			
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.053	Mature fish (2-year-old)	-	-	-	16.8	2.8	14	-						
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	11	0.17	Immature fish (0-year-old)	Stenopsyche marmorata	Viscera removed	9.0	1.7	7.3	-							
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	2	0.21	Mature fish (2-year-old)	Empty stomach	Viscera removed	10.6	2.0	8.6	-							
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	13	0.051	Immature fish (0-year-old)	-	-	-	12.3	3.0	9.3	-						
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	9	0.022	Mature fish	-	-	-	18.7	4.7	14	-						
	Vertebrata	Amphibia	Anura	Ranidae	-	Tadpole	24	0.011	Larva (tadpoles)	-	-	-	111	23	88	-						
	Particulate Organic Mater	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	36.8	7.8	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 point	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					
Uda River	C-6	2015/8/19	Phycophyta	-	-	-	-	-	Riverbed Deposits (include algae)	-	0.063	-	-	-	249	49	200	-			
			Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridicus</i>	Nihonogomphus viridicus	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Mellicomphus viridicostus</i>	Onychogomphus viridicostus	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Odonata	Gomphidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanops</i>	Asiagomphus melanops	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	76	0.024	Larva	-	-	-	-	23.5	5.5	18	-		
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	286	0.027	Imago	-	-	-	-	24.2	5.2	19	-		
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten Crabs	5	0.12	Imago	-	-	-	-	19.1	4.1	15	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.041	Mature fish (2-year-old)	-	-	-	-	20.2	4.2	16	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	57	0.39	Mature fish (3-year-old)	-	-	-	-	9.8	1.9	7.9	-		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	R. sp. CB	11	0.029	Mature fish	-	-	-	-	30.5	7.5	23	-		
			Particulate Organic Mater	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	23.8	4.8	19	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	14	0.27	Mature fish (3-year-old)	-	-	-	-	18.8	3.8	15	-		
			Phycophyta	-	-	-	-	-	-	-	Riverbed Deposits (include algae)	-	0.046	-	-	-	192	42	150	-	
			Muro River	D-3	2015/8/20	Phycophyta	-	-	-	-	-	-	-	0.0070	-	-	-	70	16	54	-
						Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	-	-	-	-	-	-	-	-	-	-
						Arthropod	Insecta	Odonata	Gomphidae	<i>Mellicomphus viridicostus</i>	Onychogomphus viridicostus	-	-	-	-	-	-	-	-	-	-
Arthropod	Insecta	Odonata				Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Aeshidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arthropod	Insecta	Trichoptera				Stenopsychidae	<i>Anax nigrofasciatus nigrofasciatus</i>	Anax nigrofasciatus nigrofasciatus	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Trichoptera				Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	91	0.022	Larva	-	-	-	-	89	19	70	-		
Arthropod	Insecta	Megaloptera				Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	41	0.020	Larva	-	-	-	-	29.0	7.0	22	-		
Arthropod	Malacostraca	Decapoda				Procambarus	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.037	Imago	-	-	-	-	163	33	130	-		
Arthropoda	Malacostraca	Decapoda				Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	236	0.018	Imago	-	-	-	-	37.2	8.2	29	-		
Mollusca	Bivalvia	Unionoidea				Unionidae	<i>Yokohamashiiragai</i>	Yokohamashiiragai	3	0.020	Imago	-	-	-	-	-	288	58	230	-	
Vertebrata	Osteichthyes	Siluriformes				Bagridae	<i>Tachysurus tokienis</i>	Cut-tailed bullhead	2	0.051	Mature fish (2-year-old)	Manosquephelus japonicus, Ephemeroptera, Tgaidae	-	-	-	27.8	5.8	22	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Opsariichthys platypus</i>	Zacco platypus	6	0.063	Mature fish (2-year-old)	-	-	-	-	116	24	92	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	18	0.24	Mature fish (2-year-old)	-	-	-	-	52	12	40	-		
Vertebrata	Osteichthyes	Cypriniformes				Cobriidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.036	Mature fish (2-year-old)	-	-	-	-	150	30	120	-		
Vertebrata	Osteichthyes	Siluriformes				Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.0054	Immature fish (0-year-old)	Fish	-	-	-	21	N.D.(8.3)	21	-		
Vertebrata	Osteichthyes	Perciformes				Gobiidae	-	Rhinogobius	20	0.045	Mature fish	-	-	-	-	99	20	79	-		
Particulate Organic Mater	-	-				-	-	-	-	-	Bottom fallen leaves	-	0.12	-	-	-	426	86	340	-	
Phycophyta	-	-				-	-	-	-	-	Riverbed Deposits (include algae)	-	0.081	-	-	-	341	61	280	-	
Niiha River	E-2b	2015/8/22				Phycophyta	-	-	-	-	-	-	-	0.021	-	-	-	100	20	80	-
			Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	-	-	-	-	-	-	-	-	-	-			
			Arthropod	Insecta	Odonata	Gomphidae	<i>Mellicomphus viridicostus</i>	Onychogomphus viridicostus	84	0.021	Larva (dragonfly larva)	-	-	-	-	-	-	-			
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	-	-	-	-	-	-	-	-	-	-	-		
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	180	0.044	Larva	-	-	-	-	300	60	240	-		
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	22	0.014	Larva	-	-	-	-	71	16	55	-		
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon pauceiensis</i>	Common prawn	19	0.024	Imago	-	-	-	-	70	15	55	-		
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten Crabs	4	0.031	Imago	-	-	-	-	82	16	66	-		
			Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	14	0.40	Mature fish	-	-	-	-	212	42	170	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	0.11	Mature fish (2.3-year-old)	Amorphous residue	-	-	-	99	20	79	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	7	0.091	Immature fish (1-year-old)	-	-	-	-	81	17	64	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Zacco platypus	16	0.089	Mature fish (1-year-old)	-	-	-	-	86	17	69	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfi</i>	Carassius auratus langsdorfi	20	0.11	Mature fish (0-year-old)	-	-	-	-	149	29	120	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus	24	0.12	Mature fish (1-year-old)	-	-	-	-	56	11	45	-		
			Vertebrata	Amphibia	Anura	Ranidae	<i>Lithobates catesbeianus</i>	American Bullfrog	24	0.17	Larva (tadpoles)	-	-	-	-	1070	220	850	-		
			Particulate Organic Mater	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.12	-	-	-	172	32	140	-	

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137					
Ota River	F-1	-	-	Phycophyta	-	-	-	Riverbed Deposits (include algae)	-	0.047	-	-	-	421	81	340	-				
				Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	-	-	-	-	-	-	-	-	-	-		
				Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Onychogomphus viridicostus	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	-	Davidius	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanops</i>	Asiagomphus melanops	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	41	0.0097	Larva	-	-	-	478	98	380	-		
				Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	25	0.012	Larva	-	-	-	150	30	120	-		
				Arthropoda	Insecta	Neuroptera	Corydalidae	<i>Parachauliodes japonicus</i>	Parachauliodes japonicus	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Malacostraca	Decapoda	Procambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.029	Imago	-	-	-	388	78	310	-		
				Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	12	0.015	Imago	-	-	-	570	120	450	-		
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	177	0.021	Imago	-	-	-	186	36	150	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakomensis</i>	Japanese dace	3	0.062	Mature fish (3-year-old)	-	-	-	540	110	430	-		
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	-	Rhinogobius	10	0.020	Mature fish	-	-	-	1050	210	840	-		
				Particulate Organic Matter	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.15	-	-	76	15	61	-	
				Lake Hayama	G-1	In the lake	-	Phycophyta	-	-	-	Plankton (Planktonic algae)	-	0.030	-	-	-	17.6	3.6	14	-
					G-2			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Carassius auratus langsdorffii	1	0.15	Mature fish (2-year-old)	Empty stomach	-	-	-	-
G-3	Vertebrata	Osteichthyes	Perciformes		Centrarchidae			<i>Micropterus dolomieu dolomieu</i>	Small mouth bass	1	0.68	Mature fish (4-year-old)	Carassius	Viscera removed	117	24	93	-			
Vertebrata	Osteichthyes	Perciformes	Centrarchidae		<i>Micropterus salmoides</i>			Largemouth bass	1	1.3	Mature fish (4-year-old)	Empty stomach	Viscera removed	600	120	480	1.3				
Phycophyta	-	-	-		-			-	Riverbed Deposits (include algae)	-	0.060	-	-	-	1640	340	1300	-			
Arthropod	Insecta	Odonata	Corduliidae		<i>Macromia amphigena amphigena</i>			Macromia amphigena	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata	Cordulegastridae		<i>Anotogaster sieboldii</i>			Anotogaster sieboldii	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata	Gomphidae		<i>Nihonogomphus viridis</i>			Nihonogomphus viridis	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata	Gomphidae		<i>Melligomphus viridicostus</i>			Onychogomphus viridicostus	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata	Gomphidae		<i>Sieboldius albardae</i>			Sieboldius albardae	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata	Gomphidae		-			Davidius	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Trichoptera	Stenopsychidae		<i>Stenopsyche sauteri</i>			Parastenopsyche sauteri	173	0.044	Larva	-	-	-	227	47	180	-			
Arthropod	Insecta	Trichoptera	Stenopsychidae		<i>Stenopsyche marmorata</i>			Stenopsyche marmorata	-	-	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Megaloptera	Corydalidae		<i>Protohermes grandis</i>			Protohermes grandis	17	0.011	Larva	-	-	-	38.6	8.6	30	-			
Arthropoda	Malacostraca	Decapoda	Atyidae		<i>Paratya improvisa</i>			Freshwater shrimp	326	0.049	Imago	-	-	-	71	14	57	-			
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae		<i>Tribolodon hakomensis</i>			Japanese dace	16	0.14	Mature fish (2.3-year-old)	Ephemeroptera	Viscera removed	91	18	73	-				
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae		<i>Tribolodon hakomensis</i>			Japanese dace	37	0.015	Immature fish (0-year-old)	-	-	-	76	17	59	-			
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae		<i>Oncorhynchus masou masou</i>			Yamame trout	11	0.053	Immature fish (0-year-old)	-	-	-	85	18	67	-			
Vertebrata	Osteichthyes	Perciformes	Centrarchidae		<i>Micropterus dolomieu dolomieu</i>			Small mouth bass	1	0.28	Mature fish (2-year-old)	Fish	Viscera removed	173	33	140	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae		<i>Rhinogobius flumineus</i>			Rhinogobius flumineus	20	0.046	Mature fish	-	-	-	108	20	88	-			
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	109	0.033	Immature fish	-	-	-	58	12	46	-						
Particulate Organic Matter	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.13	-	-	351	71	280	-					

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Location	Sampling point	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 Atsumi	H-1 H-2 H-3	In the lake	Vertebrata	Osteichthyes	Decapoda	Astacidae	<i>Paeffastacus leniusculus</i>	Signal crayfish	44	1.7	Imago	-	-	42.8	8.8	34	7.7			
							<i>Hyponemus nipponensis</i>	Japanese smelt	65	0.29	Mature fish (1-year-old)	Chlodocera	Viscera removed	18.3	3.3	15	-			
							<i>Tribolodon hakonensis</i>	Japanese dace	8	0.81	Mature fish (4-year-old)	Amorphous residue	Viscera removed	41.6	8.6	33	-			
							<i>Carassius auratus langsdorfi</i>	Carassius auratus langsdorfi	7	2.2	Mature fish (6-year-old)	Amorphous residue	Viscera removed	71	14	57	1.2			
							<i>Hemibarbus barbus</i>	Hemibarbus barbus	10	2.9	Mature fish (3-year-old)	Amorphous residue	Viscera removed	51.2	9.2	42	1.0			
							<i>Cyprinus carpio</i>	Common carp	1	2.1	Mature fish (5-year-old)	Empty stomach	Viscera removed	41.8	7.8	34	1.1			
							<i>Salvelinus leucomaenis</i>	Char	4	1.5	Mature fish (3-year-old)	Pond Smelt	Viscera removed	56	10	46	0.34			
							<i>Oncorhynchus masou masou</i>	Seema	2	1.2	Mature fish (3-year-old)	Empty stomach	Viscera removed	41.2	8.2	33	-			
							<i>Legomis macrochirus macrochirus</i>	Bluegill	7	0.46	Mature fish (3-year-old)	Shrimp, Western Waterweed	Viscera removed	47.3	9.3	38	-			
							<i>Cyprinus carpio</i>	Small mouth bass	7	2.9	Mature fish (3-year-old)	Pond Smelt, Common prawn, Signal crayfish	Viscera removed	74	13	61	1.2			
	H-3	Inflowing rivers	2015/8/27	Phycophyta	-	-	-	-	-	-	0.016	-	-	108	20	88	-			
														122	25	97	-			
	H-4	Within the lake and rivers in the vicinity	2015/8/26	Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	-	0.24	-	-	-	197	37	160	-		
								<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	15	0.018	Larva (dragonfly larva)	-	-	9.2	N.D.(2.4)	9.2	-		
								<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.022	Imago	Molluscan body	21.6	5.6	16	-			
								<i>Anura</i>	Anura	9	0.0086	Larva (tadpoles)	-	-	33.6	7.6	26	-		
								<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	3	0.021	Imago	-	-	14.1	4.1	10	-		
								<i>Carassius sp.</i>	Carassius sp.	8	3.1	Mature fish (6-year-old)	Empty stomach	Viscera removed	27.5	5.5	22	0.44		
								<i>Carassius sp.</i>	Carassius sp.	98	0.63	Immature fish (1-year-old)	-	-	9.0	1.9	7.1	-		
	Lake Inawashiro	I-1 I-2 (north lakeside)	2015/8/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus	79	1.3	Mature fish (3-year-old)	-	-	8.9	1.5	7.4	0.44		
<i>Tribolodon hakonensis</i>								Japanese dace	36	2.0	Mature fish (3-year-old)	Detritus	Viscera removed	35.2	7.2	28	0.26			
<i>Japanese dace</i>								Japanese dace	123	2.2	Mature fish (1-year-old)	-	-	15.9	2.9	13	0.21			
<i>Char</i>								Char	7	2.8	Mature fish (2.3-year-old)	Pond Smelt, Japanese surfperch	Viscera removed	104	19	85	0.19			
<i>Micropterus dolomieu dolomieu</i>								Small mouth bass	3	1.3	Mature fish (2.3-year-old)	Fish, Common prawn, Amur goby	Viscera removed	58	11	47	0.33			
<i>Bottom fallen leaves</i>								Bottom fallen leaves	-	0.17	-	-	-	42.2	8.2	34	-			
<i>Phycophyta</i>								-	-	-	-	-	-	1.6	N.D.(1.7)	1.6	-			
<i>Angiospermae</i>								Dicotyledoneae	-	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.32	-	-	1.6	N.D.(0.35)	1.6	-
<i>Angiospermae</i>								Dicotyledoneae	-	Menyanthaceae	<i>Nymphoides peltata</i>	Nymphoides peltata	-	0.30	-	-	0.89	N.D.(0.34)	0.89	-
<i>Mollusca</i>								Gastropoda	Archaeogastropoda	Viviparidae	<i>Cipangopaludina chinensis laeta</i>	Mud-snail	23	0.14	Imago	-	1.6	N.D.(0.61)	1.6	-
J-1 (south lakeside)		-	2015/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Zacco platypus	11	0.12	Mature fish (1-year-old)	-	-	14.9	2.9	12	-		
								<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus	180	2.7	Mature fish (2-year-old)	-	-	11.3	2.2	9.1	0.46		
								<i>Carassius auratus langsdorfi</i>	Carassius auratus langsdorfi	36	2.6	Mature fish (3-year-old)	-	-	30.1	6.1	24	-		
								<i>Tribolodon hakonensis</i>	Japanese dace	20	2.3	Mature fish (3-year-old)	-	-	11.1	2.3	8.8	0.33		
								<i>Mitsugobio anguillicaudatus</i>	Oriental weatherfish	17	0.066	Mature fish	-	-	1.0	N.D.(0.72)	1.0	-		
								<i>Silurus asotus</i>	Amur catfish	2	0.0063	Immature fish (0-year-old)	-	-	N.D.	N.D.(4.9)	N.D.(4.7)	-		
								<i>Gymnogobius urotaenia</i>	Goby	6	0.017	Mature fish	-	-	3.2	N.D.(2.9)	3.2	-		
								<i>Ranidae</i>	Ranidae	14	0.12	Imago	-	-	0.7	N.D.(0.73)	0.70	-		
								<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	5	0.025	Imago	-	-	1.9	N.D.(2.3)	1.9	-		

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	2015/8/19	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trilineatus</i>	Japanese blue Crabs	3	0.96	Imago	-	-	0.29	N.D.(0.33)	0.29	-		
			Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	1	0.078	Mature fish (1-year-old)	Crabs, Ragworm	Viscera removed	N.D.	N.D.(0.76)	N.D.(0.71)	-		
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Pleuronectes herzensteini</i>	Yellow striped flounder	1	0.85	Mature fish (3-year-old)	Empty stomach	Viscera removed	0.63	N.D.(0.29)	0.63	-		
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Kareius bicoloratus</i>	Stone flounder	3	4.4	Mature fish (7-year-old)	-	-	6.2	1.1	5.1	N.D.(0.020)		
			Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	<i>Platycephalus</i> sp.2	Flathead	1	0.59	Mature fish (3-year-old)	Red rice prawn	Viscera removed	1.2	N.D.(0.43)	1.2	-		
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	3.5	Mature fish (5-year-old)	Empty stomach	Viscera removed	0.92	N.D.(0.27)	0.92	N.D.(0.019)		
Off Soma City	L-1 L-2 L-3	Matsukawaura	Phycophyta	-	-	-	-	Plankton (Planktonic algae)	-	0.016	-	-	-	11.2	2.3	8.9	-		
			Angiospermae	Monocotyledoneae	-	Zosteraceae	<i>Zostera marina</i>	eel grass	-	1.3	-	-	-	-	3.43	0.63	2.8	-	
			Arthropod	Malacostraca	Mysida	Mysidae	-	-	Mysid shrimp	-	0.16	Imago	-	-	-	1.3	N.D.(0.58)	1.3	-
			Arthropod	Malacostraca	Decapoda	Varunidae	-	-	Hemigrapsus	-	0.17	Imago	-	-	-	2.1	N.D.(0.60)	2.1	-
			Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	27	0.38	Imago	-	-	Molluscan body	2.00	0.50	1.5	-	
			Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	91	0.35	Imago	-	-	Molluscan body	1.41	0.31	1.1	-	
			Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	3	0.036	Immature fish (0-year-old)	-	-	-	2.8	N.D.(1.1)	2.8	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius breunigii</i>	Chestnut goby	9	0.015	Immature fish/Mature fish (0-year-old)	-	-	-	3.2	N.D.(2.5)	3.2	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	-	-	-	-	-	-	-	-	-	-	-
			Vertebrata	Osteichthyes	Musculiformes	Musculidae	<i>Magell cephalus cephalus</i>	Flathead mullet	13	0.18	Immature fish (0-year-old)	-	-	-	14.8	2.8	12	-	
			Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trilineatus</i>	Japanese blue Crabs	2	0.72	Imago	-	-	-	2.34	0.44	1.9	-	
			Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Plarionectes yokohamae</i>	Marbled sole	1	0.30	Mature fish (3-year-old)	Ragworm	Viscera removed	1.86	0.36	1.5
Vertebrata	Osteichthyes	Pleuronectiformes				Pleuronectiformes	<i>Eopsetta grigorjevi</i>	Spotted halibut	2	0.33	Mature fish (3-year-old)	Empty stomach	Viscera removed	1.4	N.D.(0.50)	1.4	-		
Vertebrata	Osteichthyes	Pleuronectiformes				Pleuronectiformes	<i>Plarionichthys japonicus</i>	Finespotted flounder	1	0.099	Mature fish (2-year-old)	Shrimp	Viscera removed	1.5	N.D.(0.81)	1.5	-		
Vertebrata	Osteichthyes	Pleuronectiformes				Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	2.6	Mature fish (3-year-old)	Fish	Viscera removed	0.95	N.D.(0.37)	0.95	N.D.(0.018)		
Vertebrata	Osteichthyes	Tetraodontiformes				Tetraodontidae	<i>Takifugu poecilonotus</i>	Pufferfish	5	0.68	Mature fish	Crabs	Viscera removed	1.1	N.D.(0.27)	1.1	-		
Vertebrata	Osteichthyes	Triglididae				Triglididae	<i>Chelidonichthys spinosus</i>	Gurnard	1	0.56	Mature fish (5-year-old)	Red rice prawn, Ragworm	Viscera removed	1.78	0.48	1.3	-		
Vertebrata	Chondrichthyes	Squatiniformes				Squatinidae	<i>Squatina japonica</i>	Japanese angelshark	1	6.3	Mature fish	Fish (Sole)	Viscera removed	30.8	5.8	25	0.027		
Vertebrata	Chondrichthyes	Rajiformes				Rajidae	<i>Okamejei kenoei</i>	Skate	5	4.0	Mature fish	Crabs, Fish	Viscera removed	12.0	2.3	9.7	0.23		
Vertebrata	Chondrichthyes	Carcharhiniformes				Triakidae	<i>Stenopterus manazo</i>	Star-spotted smooth-hound	5	5.2	Mature fish	Crabs, Crustacea, Fish	Viscera removed	3.49	0.69	2.8	0.018		
Brown algae	Phaeophyceae	Laminariales				Lessoniaceae	<i>Eisenia bicyclis</i>	-	-	0.30	-	-	-	-	10.0	1.9	8.1	-	
Mollusca	Gastropoda	Archaeogastropoda				Haliotis asinina	-	-	abalone	4	0.62	Imago	-	-	Molluscan body	0.72	N.D.(0.21)	0.72	-
Echinoderm	Echinoidea	Echinoidea				Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	7	0.87	Imago	-	-	-	0.79	N.D.(0.26)	0.79	-	

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