

○ Results (water)

Location			2015 October 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)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.5	1.3	3.8	9.6	19.4	0.10	1.5	2	2.3	0.0037	0.014	0.0010
	A-1(Deep layer)	37.6210°	140.5218°	7.5	1.4	4.0	9.7	22.4	0.11	1.6	4	2.2	0.0039	0.017	-
	A-2	37.5673°	140.3946°	7.7	0.6	2.4	10.6	10.8	0.06	0.8	1	1.5	0.0056	0.019	-
	B-1	37.7843°	140.4924°	8.8	1.3	3.9	12.1	20.6	0.10	1.4	4	2.4	0.0028	0.010	-
	B-2	37.8121°	140.5058°	8.6	1.3	3.7	12.0	18.4	0.10	1.4	4	2.5	0.0023	0.010	-
Uda River	B-3	37.8182°	140.4679°	7.9	0.6	2.9	10.9	8.0	0.04	1.2	2	1.4	0.0018	0.0065	-
	C-1	37.7953°	140.7459°	6.9	<0.5	1.6	10.6	10.1	0.06	0.7	<1	0.4	0.0037	0.012	-
	C-2	37.7718°	140.7290°	7.0	<0.5	2.9	11.2	8.8	0.05	1.3	2	1.2	0.0070	0.028	-
	C-3	37.7792°	140.8040°	7.1	<0.5	1.7	9.8	8.6	0.05	0.7	<1	0.8	0.0052	0.018	-
	C-4	37.7687°	140.8443°	7.1	<0.5	1.5	11.0	8.2	0.05	0.6	<1	0.2	0.0028	0.012	0.00093
	C-5	37.7646°	140.8603°	7.2	<0.5	1.7	10.3	8.3	0.05	0.7	<1	0.3	0.0034	0.012	-
Mano River	C-6	37.7764°	140.8877°	7.2	<0.5	1.7	10.6	9.1	0.05	0.8	<1	0.2	0.0025	0.0090	-
	D-1	37.7331°	140.9254°	7.6	<0.5	2.3	11.6	9.9	0.05	1.0	<1	0.5	0.0041	0.015	0.0014
	D-2	37.7095°	140.9566°	7.2	0.7	3.0	10.0	11.7	0.06	1.2	<1	1.0	0.0028	0.014	-
	D-3	37.7051°	140.9623°	7.1	0.6	2.6	11.2	12.4	0.07	1.0	<1	0.8	0.0060	0.022	-
	D-4a	37.7308°	140.9081°	7.4	<0.5	2.2	10.2	9.8	0.05	1.0	<1	0.6	0.0053	0.018	-
	D-4b	37.7312°	140.9096°	7.5	<0.5	2.2	10.5	9.8	0.05	1.0	<1	0.7	0.0059	0.024	-
Niida River	D-5	37.7214°	140.8889°	7.5	<0.5	2.5	10.5	8.4	0.05	1.1	<1	0.8	0.010	0.045	-
	E-1	37.6609°	140.9115°	7.7	<0.5	2.2	10.7	6.3	0.04	0.9	1	0.9	0.0076	0.034	0.0019
	E-2a	37.6640°	140.9447°	7.5	<0.5	2.3	10.8	6.9	0.04	0.9	<1	0.6	0.0072	0.032	-
	E-2b	37.6635°	140.9452°	7.5	<0.5	2.1	10.9	6.9	0.04	0.9	<1	0.6	0.0084	0.032	-
	E-3	37.6444°	141.0018°	7.5	<0.5	2.4	10.4	9.1	0.05	0.9	2	0.8	0.0085	0.031	-
Ota River	E-4	37.6485°	140.9630°	7.7	<0.5	2.0	10.6	7.1	0.04	0.9	<1	0.6	0.0059	0.024	-
	E-5	37.6652°	140.9169°	7.7	1.3	1.8	11.0	6.5	0.04	0.9	1	0.6	0.0064	0.026	-
	F-1	37.5975°	140.9252°	7.4	<0.5	2.3	10.2	4.9	0.03	0.9	<1	0.7	0.048	0.20	-
	F-2	37.6016°	140.9423°	7.2	<0.5	2.1	10.0	5.5	0.03	0.9	<1	0.6	0.040	0.17	0.0043
	F-3	37.6045°	140.9636°	7.3	<0.5	2.2	9.9	5.6	0.03	0.8	<1	0.5	0.066	0.27	-
	F-4	37.6070°	140.9720°	6.8	<0.5	1.8	9.9	6.7	0.04	0.7	<1	0.4	0.030	0.12	-
Lake Hayama (Mano Dam)	F-5	37.6022°	140.9868°	7.0	<0.5	2.0	10.0	7.3	0.04	0.8	<1	0.8	0.030	0.13	-
	F-6	37.5953°	141.0123°	7.0	0.5	2.7	10.3	12.4	0.07	1.0	2	1.2	0.029	0.12	-
	G-1(Surface layer)	37.7321°	140.8127°	7.1	0.8	3.6	8.8	6.2	0.04	1.6	4	4.1	0.021	0.088	-
	G-1(Deep layer)	37.7321°	140.8127°	7.1	0.8	3.8	8.3	6.2	0.04	1.6	5	4.5	0.026	0.11	0.0012
	G-3(Surface layer)	37.7302°	140.8307°	7.2	1.0	3.6	9.3	6.0	0.04	1.7	4	3.3	0.024	0.093	-
	G-3(Deep layer)	37.7302°	140.8307°	7.2	0.7	3.7	8.7	6.0	0.04	1.6	4	3.8	0.016	0.072	-
Lake Akimoto	G-5(Surface layer)	37.7341°	140.8088°	7.1	0.8	3.7	8.3	6.2	0.04	1.6	4	3.8	0.021	0.081	-
	G-5(Deep layer)	37.7341°	140.8088°	7.2	0.6	3.6	8.9	6.2	0.04	1.7	4	4.1	0.017	0.071	-
	H-1(Surface layer)	37.6575°	140.1264°	7.1	0.6	3.6	10.1	4.9	0.03	1.4	2	1.6	0.0044	0.017	-
	H-1(Deep layer)	37.6575°	140.1264°	7.0	<0.5	3.0	8.7	4.9	0.03	1.4	2	1.7	0.0040	0.017	-
	H-3(Surface layer)	37.6653°	140.1329°	7.1	0.6	3.9	9.3	4.9	0.03	1.4	2	1.7	0.0028	0.0098	-
Lake Inawashiro	H-3(Deep layer)	37.6653°	140.1329°	7.0	<0.5	3.3	9.1	4.8	0.03	1.4	<1	1.4	0.0023	0.010	0.0012
	H-5(Surface layer)	37.6523°	140.1568°	7.2	0.8	4.1	9.2	4.9	0.03	1.4	2	1.7	0.0034	0.010	-
	H-5(Deep layer)	37.6523°	140.1568°	7.1	<0.5	3.5	9.6	4.9	0.03	1.6	1	1.7	0.0024	0.011	-
	I-1(Surface layer)	37.5047°	140.1143°	7.1	0.7	1.8	10.0	11.8	0.06	0.8	2	0.6	0.0028	0.012	-
	I-1(Deep layer)	37.5047°	140.1143°	6.9	<0.5	1.4	9.6	11.7	0.06	0.7	1	0.4	0.0022	0.012	0.00080
Lake Inawashiro	I-3(Surface layer)	37.5077°	140.0263°	7.0	1.0	3.1	9.9	11.4	0.06	1.5	<1	0.6	0.0026	0.011	-
	I-3(Deep layer)	37.5077°	140.0263°	7.0	<0.5	1.6	10.0	11.2	0.06	0.7	<1	0.5	0.0026	0.012	-
	J-1(Surface layer)	37.4203°	140.1008°	7.1	1.5	2.6	9.7	11.4	0.06	0.9	2	0.7	0.0033	0.0099	-
	J-1(Deep layer)	37.4203°	140.1008°	7.0	0.8	2.3	9.9	11.3	0.06	0.8	<1	0.7	0.0039	0.011	-

○ Results (water)

Location			2015 October 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)
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°	8.1	<0.5	1.9	8.1	4240	27.40	1.0	2	1.2	0.0024	0.010	-
	K-2(Deep layer)	38.0455°	140.9401°	8.1	0.5	1.2	7.6	5140	33.22	0.9	2	0.7	0.0027	0.0097	0.0011
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	0.6	1.7	7.6	5100	32.82	1.0	6	1.8	0.0048	0.022	-
	L-3	37.8217°	140.9765°	8.1	0.6	1.7	7.7	5090	32.78	1.0	11	2.0	0.0059	0.022	-
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	1.5	7.8	5140	33.51	0.9	3	0.5	0.0031	0.016	-
	M-2(Deep layer)	37.1996°	141.0853°	8.0	<0.5	1.2	7.6	5200	33.82	1.0	3	1.1	0.0025	0.014	0.0010

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

○ Results (sediments)

Location			2015 October Survey																	
		Latitude	Longitude	pH	Redox potential E _{N,H/E} (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°	7.0	197	34.0	4.5	16.7	2.686	4.9	24.6	28.5	16.3	12.5	13.2	0.37	9.5	33	130	0.26
	A-2	37.5673°	140.3946°	7.0	359	14.8	1.5	1.5	2.721	40.2	44.2	14.4	0.6	0.0	0.6	1.7	9.5	28	120	-
	B-1	37.7843°	140.4924°	7.1	235	33.0	3.5	7.1	2.712	20.0	12.9	15.3	27.6	14.4	9.8	0.24	9.5	170	680	-
	B-2	37.8121°	140.5058°	7.1	303	27.5	1.9	1.6	2.762	0.0	0.8	56.5	40.5	0.3	1.9	0.27	4.8	35	160	-
	B-3	37.8182°	140.4679°	7.0	351	20.8	1.9	1.5	2.686	19.0	28.1	40.1	10.3	0.5	2.0	0.79	9.5	28	140	-
Uda River	C-1	37.7953°	140.7459°	7.3	384	26.2	3.2	2.3	2.769	20.8	49.0	25.8	3.8	0.4	0.2	1.2	9.5	88	380	-
	C-2	37.7718°	140.7290°	6.9	107	45.6	11.0	20.1	2.638	12.0	13.4	15.4	13.1	17.4	28.7	0.11	9.5	35	170	-
	C-4	37.7687°	140.8443°	7.4	297	19.3	1.3	1.0	2.700	17.8	31.2	43.8	6.0	0.6	0.6	0.83	9.5	81	300	0.47
	C-5	37.7646°	140.8603°	7.6	312	16.0	1.2	1.8	2.690	8.7	37.4	51.9	1.2	0.3	0.5	0.81	4.8	54	230	-
	C-6	37.7764°	140.8877°	7.5	322	20.2	1.4	0.9	2.711	11.0	34.9	47.7	5.0	0.6	0.8	0.79	9.5	54	260	-
	D-1	37.7331°	140.9254°	7.5	331	18.9	1.8	2.1	2.691	20.3	16.2	49.2	13.1	0.7	0.5	0.57	9.5	85	340	1.0
Mano River	D-2	37.7095°	140.9566°	7.4	339	15.8	1.5	1.3	2.695	30.9	34.9	29.7	3.9	0.3	0.3	1.3	9.5	53	210	-
	D-3	37.7051°	140.9623°	7.4	356	18.5	2.1	2.6	2.665	23.7	18.9	32.7	20.8	2.1	1.8	0.62	9.5	49	180	-
	D-4a	37.7308°	140.9081°	7.5	349	20.0	2.2	2.4	2.685	23.0	34.9	36.2	5.1	0.4	0.4	1.0	9.5	110	440	-
	D-5	37.7214°	140.8889°	7.5	350	18.9	2.0	1.9	2.673	18.7	32.6	43.7	4.6	0.2	0.2	0.88	9.5	37	220	-
	E-1	37.6609°	140.9115°	7.2	467	9.8	0.7	0.9	2.674	29.3	56.8	13.6	0.2	0.1	1.5	4.8	85	420	0.20	
Niida River	E-2a	37.6640°	140.9447°	6.5	452	31.2	5.4	10.1	2.665	9.8	14.3	24.6	20.5	15.5	15.3	0.23	4.8	680	2900	-
	E-3	37.6444°	141.0018°	6.9	450	16.5	1.0	1.3	2.688	19.1	28.7	45.7	5.5	0.4	0.6	0.82	19	44	210	-
	E-4	37.6485°	140.9630°	7.0	443	19.8	1.1	1.2	2.674	4.2	14.3	75.6	4.3	0.5	1.1	0.59	9.5	140	540	-
	E-5	37.6652°	140.9169°	7.1	470	20.3	1.0	1.1	2.677	2.8	31.7	61.3	2.9	0.5	0.8	0.69	4.8	210	870	-
	F-1	37.5975°	140.9252°	7.4	384	18.3	1.5	1.3	2.630	6.2	24.3	61.8	6.6	0.6	0.5	0.64	4.8	460	2100	-
Ota River	F-2	37.6016°	140.9423°	7.3	382	13.8	0.6	0.9	2.625	11.6	57.7	29.8	0.8	0.1	1.1	4.8	240	1000	0.38	
	F-3	37.6045°	140.9636°	7.3	380	21.9	1.1	1.6	2.621	1.1	8.1	78.1	11.1	1.0	0.6	0.44	4.8	600	2700	-
	F-4	37.6070°	140.9720°	7.4	412	11.2	0.6	0.6	2.629	34.6	38.3	22.6	4.2	0.2	0.1	1.5	9.5	160	780	-
	F-5	37.6022°	140.9868°	7.3	421	19.5	0.8	1.0	2.631	12.4	29.6	52.5	4.4	0.5	0.6	0.74	4.8	160	680	-
	G-1	37.7321°	140.8127°	6.7	175	58.4	10.9	37.1	2.515	5.1	2.4	8.6	42.1	23.6	18.2	0.11	9.5	1600	6600	3.8
Lake Hayama (Mano Dam)	G-2	37.7267°	140.8223°	6.7	57	73.8	15.4	42.7	2.417	0.6	2.2	4.8	7.3	47.6	37.5	0.0077	4.8	2400	11000	-
	G-3	37.7302°	140.8307°	6.7	96	57.8	9.2	22.1	2.527	10.7	11.4	17.4	13.8	27.2	19.5	0.11	19	1400	6100	-
	G-4	37.7382°	140.8035°	7.3	290	21.9	3.2	1.8	2.670	28.7	28.4	31.9	10.3	0.3	0.4	1.1	9.5	280	1100	-
	G-5	37.7341°	140.8088°	7.4	99	69.9	17.1	53.1	2.426	0.0	0.2	0.4	6.4	69.6	23.4	0.016	2.0	1900	7900	-
	H-1	37.6575°	140.1264°	6.6	44	67.9	9.1	25.6	2.553	0.0	0.0	0.1	0.1	58.7	41.1	0.0069	2.0	170	800	-
Lake Akimoto	H-2	37.6616°	140.1226°	6.6	24	78.6	11.7	34.0	2.510	0.0	0.7	1.5	2.0	36.1	59.7	0.0029	4.8	520	2200	-
	H-3	37.6653°	140.1329°	6.6	75	79.3	12.9	42.0	2.257	0.0	0.0	0.2	14.3	46.2	39.3	0.014	2.0	340	1400	2.2
	H-4	37.6551°	140.1181°	6.5	17	72.2	11.4	41.6	2.482	5.5	1.7	1.8	9.5	40.8	40.7	0.0087	9.5	220	960	-
	H-5	37.6523°	140.1568°	6.5	31	61.4	8.3	30.1	2.597	0.0	0.1	1.2	32.5	46.8	19.4	0.049	2.0	380	1800	-
	I-1	37.5047°	140.1143°	6.7	162	76.6	9.6	25.3	2.560	0.0	0.5	8.2	44.1	15.3	31.9	0.093	2.0	180	750	0.18
Lake Inawashiro	I-2	37.4995°	140.1409°	6.9	196	69.6	8.1	22.4	2.582	0.0	0.4	1.1	37.5	35.5	25.5	0.039	2.0	120	500	-
	I-3	37.5077°	140.0263°	7.0	242	73.6	10.5	25.3	2.579	0.0	0.2	1.8	19.9	44.8	33.3	0.016	2.0	47	170	-
	I-4	37.5160°	140.1092°	6.7	338	27.0	1.4	1.5	2.772	20.7	14.9	51.9	10.9	0.1	1.5	0.60	19	13	57	-
	J-1	37.4203°	140.1008°	6.9	252	29.0	1.7	2.8	2.671	0.6	4.4	71.6	21.0	0.5	1.9	0.32	4.8	49	220	-
	K-1	38.0457°	140.9282°	7.9	228	20.0	1.5	1.2	2.700	0.1	3.1	55.8	40.4	0.1	1.5	0.28	4.8	8.2	36	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-2	38.0455°	140.9401°	7.5	196	33.8	2.9	2.3	2.700	0.0	0.2	1.6	73.5	15.8	8.9	0.11	2.0	23	83	N.D.(0.16)
	K-3	38.0458°	140.9518°	7.4	30	45.1	5.2	7.5	2.666	0.0	-	0.7	38.7	44.3	16.3	0.064	0.85	70	310	-
	L-1	37.8210°	140.9610°	7.5	31	38.3	4.6	7.9	2.677	4.5	5.0	14.3	36.5	24.1	15.6	0.13	9.5	34	180	-
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.4	194	20.8	1.0	2.2	2.721	0.1	2.2	74.1	21.1	1.5	1.0	0.30	4.8	13	49	N.D.(0.15)
	L-3	37.8217°	140.9765°	7.6	57	26.9	1.5	1.6	2.720	0.0	0.7	55.5	37.2	3.0	3.6	0.27	2.0	17	71	-
	M-1	37.1736°	141.0788°	7.9	284	29.1	2.3	1.9	2.736	0.0	-	1.2	76.4	14.6	7.8	0.12	0.85	22	95	-
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.9	298	24.0	1.8	1.1	2.858	0.0	-	3.2	92.8	2.1	1.9	0.14	0.85	8.6	36	N.D.(0.15)
	M-3	37.2324°	141.0935°	7.9	302	27.9	1.9	1.3	2.784	0.0	-	2.8	93.1	2.1	2.0	0.14	0.85	6.7	27	-

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	2015/10/21	Phycophyta	-	-	-	-	Riverbed Deposits (include algae)	-	0.061	-	-	-	145	25	120	-				
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	-	-	-	11	0.0088	Larva	-	-	-	25.5	5.5	20	-
				Arthropod	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	<i>Oncygomphus viridicostus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Insecta	Odonata	Corulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Insecta	Odonata	Gomphidae	-	<i>Davidius</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
				Arthropod	Malacostraca	Decapoda	Atyidae	-	<i>Neocaridina</i> sp.	-	-	-	790	0.093	Imago	-	-	-	10.6	2.3	8.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<i>Tribolodon hakonensis</i>	-	-	-	1	0.025	Mature fish (2-year-old)	-	-	-	34.7	6.7	28	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<i>Oriental weatherfish</i>	-	-	-	42	0.055	Immature fish/Mature fish	-	-	-	14.4	2.4	12	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	<i>Yamame trout</i>	-	-	-	1	0.14	Mature fish (2-year-old)	-	-	-	14.0	3.0	11	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Glandirana rugosa</i>	<i>Wrinkled Frog</i>	-	-	-	4	0.015	Imago	-	-	-	11	N.D.(3.0)	11	-
				Particulate Organic Matter	-	-	-	-	-	-	-	-	-	0.14	-	-	-	-	26.0	5.0	21	-
				B-2	Abukuma River	2015/10/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<i>Tribolodon hakonensis</i>	-	-	3	0.99	Mature fish (5-year-old)	Aquatic insects	Japanese dace	Viscera removed	38.5	7.5
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Cyprinus carpio</i>	<i>Common carp</i>	-	-	1	3.2	Mature fish (10-year-old)	Empty stomach	Common carp	Viscera removed	27.1	5.1	22	0.19	
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	-	-	4	5.4	Mature fish (6-year-old)	Empty stomach	Hemibarbus barbus	Viscera removed	22.8	3.8	19	0.29	
	Vertebrata	Osteichthyes	Perciformes				Centrarchidae	<i>Micropterus salmoides</i>	<i>Largemouth bass</i>	-	-	1	0.26	Mature fish (1-year-old)	Empty stomach	Largemouth bass	Viscera removed	33.0	7.0	26	-	
	Vertebrata	Osteichthyes	Perciformes				Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	<i>Small mouth bass</i>	-	-	2	1.1	Mature fish (2-year-old)	Hemibarbus barbus, Japanese dace	Small mouth bass	Viscera removed	18.8	3.8	15	0.18	
	B-3	Surikami River	2015/10/30	Phycophyta	-	-	-	-	-	Riverbed Deposits (include algae)	-	0.056	-	-	-	-	72	14	58	-		
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	<i>Monkageron</i>	-	-	660	0.034	Larva	-	-	-	25.7	4.7	21	-	
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	-	-	331	0.077	Larva	-	-	-	22.2	4.2	18	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	<i>Oncygomphus viridicostus</i>	-	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Corulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	-	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>	-	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	-	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Odonata	Gomphidae	-	<i>Davidius</i>	-	-	-	-	-	-	-	-	-	-	-	-	
				Arthropod	Insecta	Megaloptera	Corydalidae	<i>Prothemex grandis</i>	<i>Prothemex grandis</i>	-	-	-	37	0.032	Larva	-	-	-	3.4	N.D.(2.0)	3.4	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	<i>Japanese fluvial sculpin</i>	-	-	-	9	0.076	Immature fish/Mature fish	-	-	-	7.7	1.2	6.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<i>Tribolodon hakonensis</i>	-	-	-	19	0.028	Immature fish (0-year-old)	-	-	-	9.2	N.D.(1.8)	9.2	-
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsarichthys platypus</i>	<i>Zacco platypus</i>	-	-	-	18	0.11	Immature fish/Mature fish (1-year-old)	-	-	-	10.3	2.0	8.3	-	
Particulate Organic Matter				-	-	-	-	-	-	-	-	0.25	-	-	-	-	-	22.1	4.1	18	-	

*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, 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	2015/10/22	Phycophyta	-	-	-	-	Riverbed Deposits (include algae)	-	0.031	-	-	-	232	52	180	-			
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	24	0.0082	Larva	-	-	-	11	N.D.(4,5)	11	-		
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	197	0.047	Imago	-	-	-	24.1	5.1	19	-		
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	31	0.087	Imago	-	-	-	37.9	7.9	30	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.019	Immature fish (1-year-old)	-	-	-	19.9	4.9	15	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsarichthys platypus</i>	Zacco platypus	14	0.057	Immature fish/Mature fish (1-year-old)	-	-	-	20.9	3.9	17	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	13	0.077	Mature fish (2-year-old)	-	-	-	15.4	2.4	13	-		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	R. sp. CB	48	0.14	Immature fish	-	-	-	23.7	4.7	19	-		
			Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.13	-	-	-	66	12	54	-		
			Muro River	D-4b	2015/10/23	Phycophyta	-	-	-	-	Riverbed Deposits (include algae)	-	0.031	-	-	-	308	58	250	-
Arthropod	Insecta	Ephemeroptera				Isoneuridae	<i>Isonychia japonica</i>	Tirakagerou	251	0.0092	Larva	-	-	-	36.5	6.5	30	-		
Arthropod	Insecta	Trichoptera				Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	136	0.0088	Larva	-	-	-	165	25	140	-		
Arthropod	Insecta	Megaloptera				Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	32	0.013	Larva	-	-	-	41.3	8.3	33	-		
Arthropod	Malacostraca	Decapoda				Palaeonidae	<i>Palaeon paucidens</i>	Common prawn	9	0.011	Imago	-	-	-	40.5	6.5	34	-		
Arthropod	Malacostraca	Decapoda				Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	68	0.016	Imago	-	-	-	54	10	44	-		
Arthropod	Malacostraca	Decapoda				Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	2	0.13	Imago	-	-	-	209	39	170	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	18	0.057	Immature fish/Mature fish (1-year-old)	-	-	-	31.8	6.8	25	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	32	0.96	Mature fish (3-year-old)	-	-	-	40.8	9.8	31	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (muscular part)	32	0.96	Mature fish (3-year-old)	-	-	-	43.5	8.5	35	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (inner parts)	32	0.96	Mature fish (3-year-old)	-	-	-	41.6	8.6	33	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Opsarichthys platypus</i>	Zacco platypus	34	0.17	Mature fish (2-year-old)	-	-	-	30.2	5.2	25	-		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Tamuroko	3	0.0094	Immature fish/Mature fish (1-year-old)	-	-	-	47	11	36	-		
Vertebrata	Osteichthyes	Cypriniformes				Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	6	0.042	Immature fish/Mature fish	-	-	-	91	14	77	-		
Vertebrata	Osteichthyes	Perciformes				Gobiidae	<i>Rhinogobius nagoyae</i>	R. sp. CB	12	0.029	Immature fish/Mature fish	-	-	-	79	16	63	-		
Vertebrata	Cephalaspidomorphi	Petromyzontiformes				Petromyzontidae	-	Far eastern brook lamprey	4	0.013	Larva	-	-	-	41.4	9.4	32	-		
Particulate Organic Matter	-	-				-	-	-	Bottom fallen leaves	-	0.20	-	-	-	271	51	220	-		
Nida River	E-2b	2015/10/25				Phycophyta	-	-	-	-	Riverbed Deposits (include algae)	-	0.025	-	-	-	344	64	280	-
						Arthropod	Insecta	Ephemeroptera	Isoneuridae	<i>Isonychia japonica</i>	Tirakagerou	135	0.0047	Larva	-	-	-	129	29	100
			Arthropod	Insecta	Plecoptera	Perlidae	-	Genus Kamimuria	166	0.0071	Larva	-	-	-	33.5	9.5	24	-		
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	85	0.0055	Larva	-	-	-	460	100	360	-		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Oligogomphus viridicostus</i>	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Calopterygidae	-	Calopterygidae	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Siboldius albardae</i>	<i>Siboldius albardae</i>	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	-	Davidius	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Astagomphus melanops</i>	<i>Astagomphus melanops</i>	-	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	5	0.0036	Larva	-	-	-	36	N.D.(14)	36	-		
			Arthropod	Malacostraca	Decapoda	Palaeonidae	<i>Palaeon paucidens</i>	Common prawn	29	0.033	Imago	-	-	-	74	14	60	-		
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	117	0.018	Imago	-	-	-	104	22	82	-		
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	6	0.36	Imago	-	-	-	124	24	100	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	22	0.30	Mature fish (3-year-old)	Empty stomach	Viscera removed	114	22	92	-			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus melanogaster</i>	Japanese surfperch	15	0.049	Mature fish (2-year-old)	-	-	-	78	16	62	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Tamuroko	13	0.018	Immature fish/Mature fish (2-year-old)	-	-	-	78	15	63	-		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	R. sp. CB	10	0.029	Immature fish/Mature fish	-	-	-	115	18	97	-		
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	0.75	Mature fish (7-year-old)	Red swamp crawfish	Viscera removed	112	21	91	-			
			Vertebrata	Amphibia	Anura	-	-	-	Tadpole	5	0.011	Larva (tadpoles)	-	-	-	202	42	160	-	
			Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.18	-	-	-	329	59	270	-		

*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.

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			
Oki River	F-1	2015/10/24	Phycophyta	-	-	-	-	Riverbed Deposits (include algae)	-	0.038	-	-	-	5200	1000	4200	-		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<i>Nihonogomphus viridis</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Mellicogomphus viridicostus</i>	<i>Oncychogomphus viridicostus</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	-	<i>Davidius</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>	-	-	-	-	-	-	-	-	-	-	
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon pauceus</i>	Common prawn	-	-	-	-	-	-	-	600	110	490	-
			Arthropoda	Malacostraca	Decapoda	Ayuidae	<i>Paratya improvisu</i>	Freshwater shrimp	184	0.029	Imago	-	-	-	-	108	21	87	-
			Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Conus pollux</i>	Japanese fluvial sculpin	3	0.064	Mature fish	-	-	-	-	740	140	600	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	30	0.16	Mature fish (3-year-old)	-	-	-	-	412	82	330	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (muscular part)	30	0.16	Mature fish (3-year-old)	-	-	-	-	620	120	500	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (inner parts)	30	0.16	Mature fish (3-year-old)	-	-	-	-	630	120	510	-
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwaue</i>	Cobitis biwaue	12	0.020	Immature fish	-	-	-	-	456	86	370	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	-	<i>Carassius</i>	3	0.050	Immature fish	-	-	-	-	428	88	340	-
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	1	0.038	Mature fish (1-year-old)	Terrestrial insects, Aquatic insects	Viscera removed	-	-	387	77	310	-
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluvialtilis</i>	<i>R. fluvialtilis</i>	11	0.026	Immature fish/Mature fish	-	-	-	-	1070	210	860	-
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	2	0.33	Mature fish (4-year-old)	Shrimp	Viscera removed	-	-	1730	330	1400	-
	Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	-	Far eastern brook lamprey	7	0.015	Larva/Imago	-	-	-	-	94	22	72	-		
Vertebrata	Particulate Organic Matter	-	-	-	-	-	0.18	Bottom fallen leaves	-	-	-	-	610	110	500	-			
G-1	In the lake	2015/10/26	Phycophyta	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	eel	1	0.095	Mature fish (6-year-old)	Empty stomach	Viscera removed	690	140	550	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.25	Mature fish (4-year-old)	Detritus	Viscera removed	-	11.1	3.3	7.8	-	
			Vertebrata	Osteichthyes	Osmerniformes	Osmernidae	<i>Hypomesus nipponensis</i>	Japanese smelt	25	0.056	Immature fish (0-year-old)	-	-	-	113	18	95	-	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.18	Mature fish (1-year-old)	Fish	Viscera removed	-	-	149	29	120	-
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Small mouth bass	3	2.8	Mature fish (4-year-old)	Common prawn, Lepidoptera, Bluegill	Viscera removed	-	-	432	82	350	1.6
			Phycophyta	-	-	-	-	-	0.030	Riverbed Deposits (include algae)	-	-	-	-	-	480	80	400	-
			Arthropod	Insecta	Plecoptera	Perlidae	<i>Kamimuria uenoi</i>	<i>Kamimuria uenoi</i> Kohno	64	0.0023	Larva	-	-	-	-	17	N.D.(16)	17	-
			Arthropod	Insecta	Plecoptera	Perlidae	<i>Kamimuria tibialis</i>	<i>Kamimuria tibialis</i>	-	-	-	-	-	-	-	-	-	-	-
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	111	0.0034	Larva	-	-	-	-	225	55	170	-
			Lake Hayama	G-4	2015/10/25	Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>	-	-	-	-	-	-	-	-
Arthropod	Insecta	Odonata				Gomphidae	<i>Mellicogomphus viridicostus</i>	<i>Oncychogomphus viridicostus</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Cordulestridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Cordulidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Gomphidae	-	<i>Davidius</i>	-	-	-	-	-	-	-	25.1	5.1	20	-
Arthropod	Insecta	Odonata				Calopterygidae	<i>Mnais costalis</i>	<i>Mnais costalis</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Gomphidae	<i>Sinogomphus flavolimbatus</i>	<i>Sinogomphus flavolimbatus</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Calopterygidae	<i>Calopteryx cornelia</i>	<i>Calopteryx cornelia</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Aeshnidae	<i>Planaeschna milnei</i>	<i>Planaeschna milnei</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Odonata				Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>	-	-	-	-	-	-	-	-	-		
Arthropod	Insecta	Megaloptera				Corydalidae	<i>Prosthermes grandis</i>	Freshwater shrimp	40	0.029	Larva	-	-	-	-	38.3	6.3	32	-
Arthropoda	Malacostraca	Decapoda				Ayuidae	<i>Paratya improvisu</i>	Freshwater shrimp	184	0.039	Imago	-	-	-	-	54	10	44	-
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	66	0.044	Immature fish (1-year-old)	-	-	-	-	53	12	41	-
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	77	0.081	Immature fish/Mature fish	-	-	-	-	72	15	57	-
Vertebrata	Osteichthyes	Cypriniformes				Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.0098	Immature fish/Mature fish	-	-	-	-	69	13	56	-
Vertebrata	Osteichthyes	Perciformes				Gobiidae	<i>Rhinogobius fluvialtilis</i>	<i>R. fluvialtilis</i>	36	0.023	Immature fish/Mature fish	-	-	-	-	86	17	69	-
Vertebrata	Osteichthyes	Perciformes				Gobiidae	-	<i>Rhinogobius</i>	-	-	-	-	-	-	-	-	-		
Vertebrata	Amphibia	Anura				Ranidae	<i>Rana ornativentris</i>	Montane brown frog	1	0.036	Imago	-	-	-	-	830	160	670	-
Vertebrata	Particulate Organic Matter	-		-	-	-	-	0.14	Bottom fallen leaves	-	-	-	-	60	12	48	-		

*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.

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 Atsumo	H-1 H-2 H-3	In the lake	2015/10/21	Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	55	3.0	Imago	-	-	28.3	6.3	22	8.4		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	17	2.7	Mature fish (4-year-old)	-	-	40.2	7.2	33	0.65		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	<i>Carassius auratus langsdorfi</i>	Common carp	25	3.1	Mature fish (3-year-old)	Amorphous residue	Viscera removed	33.4	6.4	27	1.1	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.68	Mature fish (3-year-old)	Empty stomach	Viscera removed	50	11	39	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	Hemibarbus barbus	4	1.1	Mature fish (3-year-old)	Empty stomach	Viscera removed	42.7	7.7	35	1.1	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	0.61	Mature fish (3-year-old)	Pond Smelt	Viscera removed	38.9	6.9	32	-		
				Vertebrata	Osteichthyes	Oseriformes	Oserinidae	<i>Hypomesus nipponensis</i>	Japanese smelt	151	0.84	Mature fish (1-year-old)	Plankton	Viscera removed	21.6	4.6	17	0.40		
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Small mouth bass	1	1.3	Mature fish (3-year-old)	Signal crayfish	Viscera removed	87	16	71	1.4		
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.4	Mature fish (17-year-old)	Empty stomach	Viscera removed	161	31	130	0.96		
	H-3	Inflowing rivers	2015/10/19	Phycophyta	-	-	-	-	Bottom fallen leaves	-	0.14	-	-	-	13.9	2.9	11	-		
	H-4	Within the lake and rivers in the vicinity		Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	-	0.34	-	-	-	-	16.6	2.6	14	-	
				Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	Dragonfly	15	0.017	Larva (dragonfly larva)	-	-	-	12	N.D.(5,6)	12	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Glandirana rugosa</i>	Wrinkled Frog	5	0.074	Imago	-	-	-	19.1	4.1	15	-	
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	7	0.046	Imago	-	-	-	23.3	4.3	19	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	135	3.3	Mature fish (2-year-old)	Empty stomach	Viscera removed	20.1	3.1	17	0.22		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus</i>	91	1.4	Mature fish (1-year-old)	-	Viscera removed	5.35	0.85	4.5	0.33		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	<i>Carassius auratus langsdorfi</i>	Common carp	15	3.7	Mature fish (5-year-old)	Detritus	Viscera removed	46.3	9.3	37	0.43	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	<i>Carassius auratus langsdorfi</i>	Common carp	278	1.5	Immature fish (0-year-old)	Detritus	Viscera removed	6.8	1.2	5.6	0.33	
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	11	0.73	Mature fish (3-year-old)	Detritus	Viscera removed	9.9	2.1	7.8	-					
Lake Inawashiro	I-1,I-2 (north lakeside)	2015/10/20	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	2.6	Mature fish (4-year-old)	Pond Smelt	Viscera removed	93	18	75	0.11			
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Small mouth bass	5	2.1	Mature fish (2-year-old)	Fish	Viscera removed	32.5	6.5	26	0.28			
			Phycophyta	-	-	-	-	-	Bottom fallen leaves	-	0.14	-	-	-	2.3	N.D.(0.66)	2.3	-		
			Phycophyta	-	-	-	-	-	Plankton (Planktonic algae)	-	0.024	-	-	-	-	N.D.	N.D.(1.8)	N.D.(1.3)	-	
			Angiospermae	Dicotyledoneae	-	Menyanthaceae	<i>Nymphoides peltata</i>	<i>Nymphoides peltata</i>	Water hyacinth	-	0.31	-	-	-	-	0.94	N.D.(0.34)	0.94	-	
			Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.34	-	-	-	-	2.23	0.33	1.9	-		
			Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	Dragonfly	37	0.018	Larva (dragonfly larva)	-	-	-	2.1	N.D.(2.4)	2.1	-	
			Arthropod	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	<i>Anax parthenope</i>	Dragonfly	65	0.037	Imago	-	-	-	11.1	2.2	8.9	-	
			Arthropod	Malacostraca	Decapoda	Palaeomonidae	<i>Palaeomon paucidentis</i>	Common prawn	28	0.12	Imago	-	-	-	9.5	1.8	7.7	-		
	J-1 (south lakeside)	-	-	2015/10/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.31	Mature fish (4-year-old)	Spirogyra	Viscera removed	26.2	5.2	21	-	
				2015/10/11	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	136	2.9	Mature fish (1-year-old)	-	-	20.7	3.7	17	0.18	
				2015/10/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Oxytrichthys platypus</i>	Zacco platypus	33	0.48	Mature fish (2-year-old)	-	-	9.1	1.7	7.4	-	
				2015/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus</i>	21	0.31	Mature fish (1-year-old)	-	-	9.7	1.7	8.0	-	
				2015/10/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	<i>Carassius auratus langsdorfi</i>	Common carp	5	2.1	Mature fish (11-year-old)	-	-	20.0	4.0	16	0.48
				2015/10/20	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	55	0.082	Immature fish/Mature fish	-	-	1.4	N.D.(1.2)	1.4	-	
				2015/10/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	4	3.1	Mature fish (5-year-old)	-	-	35.8	6.8	29	0.44	
				2015/10/7	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.62	Mature fish (3-year-old)	Empty stomach	Viscera removed	75	14	61	-	
				2015/10/7	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seena	1	0.85	Mature fish (3-year-old)	Empty stomach	Viscera removed	113	23	90	0.088	
				2015/10/20	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	20	0.13	Immature fish/Mature fish	-	-	17.0	3.0	14	-	
	Vertebrata	Amphibia	Anura	Ranidae	<i>Glandirana rugosa</i>	Wrinkled Frog	5	0.046	Imago	-	-	-	2.0	N.D.(2.0)	2.0	-				
	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	<i>Cynops pyrrhogaster</i>	Japanese salamander	10	0.040	Imago	-	-	-	2.8	N.D.(2.8)	2.8	-			

*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, 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			
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	2015/10/27	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	8	2.8	Imago	-	-	1.0	N.D.(0.29)	1.0	0.058		
			Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	3	0.29	Mature fish (2-year-old)	Crab, Shrimp	Viscera removed	2.50	0.60	1.9	-		
			Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	<i>Platycephalus sp.2</i>	Flathead	1	0.14	Mature fish (1-year-old)	Shrimp	Viscera removed	4.5	1.1	3.4	-		
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Kareius bicoloratus</i>	Stone flounder	2	3.5	Mature fish (7-year-old)	Empty stomach	Viscera removed	1.83	0.43	1.4	N.D.(0.019)		
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	2.6	Mature fish (4-year-old)	Empty stomach	Viscera removed	1.2	N.D.(0.39)	1.2	N.D.(0.022)		
			Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	7	0.15	Immature fish (0-year-old)	Crabs, Ragworm	Viscera removed	4.31	0.91	3.4	-		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	20	0.27	Immature fish/Mature fish (0-year-old)	Ragworm	Viscera removed	5.6	1.3	4.3	-		
Off Soma City	L-1 L-2 L-3 Matsukawaura	2015/10/22	Phycophyta	-	-	-	-	Plankton (Planktonic algae)	-	0.018	-	-	-	4.4	N.D.(1.9)	4.4	-		
			2015/10/28	Angiospermae	Monocotyledoneae	-	Zosteraceae	<i>Zostera marina</i>	eel grass	-	1.5	-	-	-	1.48	0.28	1.2	-	
			2015/10/22	Arthropod	Malacostraca	Decapoda	Varunidae	-	Hemigrapsus	98	0.11	Imago	-	-	-	2.3	N.D.(0.74)	2.3	-
			2015/10/22	Arthropod	Malacostraca	Decapoda	Crangonidae	<i>Crangon affinis</i>	Ebijako	76	0.018	Imago	-	-	-	N.D.	N.D.(2.5)	N.D.(2.3)	-
			2015/10/28	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	17	0.37	Imago	-	-	-	1.49	0.39	1.1	-
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	100	0.32	Imago	-	-	-	5.58	0.88	4.7	-
			2015/10/22	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius breunigii</i>	Chestnut goby	-	-	-	-	-	-	-	-	-	-
Vertebrata	Osteichthyes	Perciformes		Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	28	0.071	Immature fish/Mature fish	-	-	-	2.5	N.D.(0.76)	2.5	-			
Off Iwaki City	M-1 M-2 M-3 Offshore of Hisanohama	2015/10/23	Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	11	0.16	Immature fish	-	-	11.9	2.4	9.5	-		
			Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	2	0.84	Imago	-	-	-	5.3	1.0	4.3	0.053	
			Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidichthys spinosus</i>	Gurnard	5	2.8	Mature fish (9-year-old)	Empty stomach	Viscera removed	2.05	0.45	1.6	0.031		
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Kareius bicoloratus</i>	Stone flounder	2	0.62	Mature fish (2-year-old)	Ragworm	Viscera removed	1.1	N.D.(0.45)	1.1	-		
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	4.9	Mature fish (4-year-old)	Empty stomach	Viscera removed	0.67	N.D.(0.43)	0.67	N.D.(0.020)		
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	<i>Pleuronectes yokohamae</i>	Marbled sole	2	0.99	Mature fish (3-year-old)	Ragworm	Viscera removed	2.4	N.D.(0.87)	2.4	N.D.(0.021)		
			Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	8	5.0	Mature fish (3-year-old)	Anchovy	Viscera removed	2.42	0.42	2.0	0.022		
			Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Eymnis japonica</i>	Crimson sea-bream	3	1.5	Mature fish (5-year-old)	Empty stomach	Viscera removed	2.7	N.D.(0.53)	2.7	0.037		
			Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifuga pacificonatus</i>	Pufferfish	3	1.1	Mature fish	Crabs, Shellfish	Viscera removed	N.D.	N.D.(0.83)	N.D.(0.82)	0.061		
			Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenoei</i>	Skate	2	1.5	Mature fish	Shrimp	Viscera removed	11.8	2.1	9.7	0.24		
			Vertebrata	Chondrichthyes	Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	3	2.6	Mature fish	Shrimp	Viscera removed	3.90	0.80	3.1	0.023		
			M-4 Hisanohama Coastal areas	2015/10/22	Brown algae	Phaeophyceae	Laminariales	Lessoniaceae	<i>Eisenia bicyclis</i>	Eisenia	-	0.29	-	-	-	1.25	0.40	0.85	-
					Mollusca	Gastropoda	Archaeogastropoda	Haliois asinina	-	abalone	4	0.54	Imago	-	-	-	2.28	0.58	1.7
	Echinoderm	Echinoidea			Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	5	0.45	Imago	-	-	-	0.73	N.D.(0.36)	0.73	-	
	Vertebrata	Osteichthyes			Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	20	0.27	Immature fish/Mature fish (0-year-old)	Ragworm	Viscera removed	5.6	1.3	4.3	-		

*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.