

○ Results (water)

Location		2014 December 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)	37.6207°	140.5220°	7.5	1.2	3.6	12.5	16.4	0.09	1.6	3	2.5	0.021	0.059	0.0011
	A-1 (Deep layer)			7.5	1.3	3.6	12.3	16.7	0.09	1.8	7	3.1	0.0099	0.029	—
	A-2	37.5655°	140.3944°	7.5	0.6	2.5	12.4	10.0	0.06	0.9	2	1.8	0.0064	0.020	—
	B-1	37.7847°	140.4920°	7.6	1.3	4.1	12.3	17.0	0.09	1.7	7	3.4	0.0078	0.021	—
	B-2	37.8120°	140.5058°	7.6	0.9	3.3	12.4	13.0	0.07	1.6	3	2.4	0.0053	0.019	—
	B-3	37.8162°	140.4719°	7.6	0.5	3.4	12.2	7.9	0.05	1.5	3	1.6	0.0043	0.014	—
Uda River	C-1	37.7956°	140.7456°	7.3	0.5	2.9	12.1	8.5	0.05	0.8	8	1.8	0.021	0.056	—
	C-2	37.7708°	140.7273°	7.2	<0.5	2.5	12.0	7.7	0.05	1.1	2	1.1	0.022	0.066	—
	C-3	37.7791°	140.8041°	7.5	<0.5	1.6	12.5	8.5	0.05	0.8	2	0.7	0.0084	0.024	—
	C-4	37.7693°	140.8442°	7.6	<0.5	1.9	12.7	8.0	0.05	0.8	2	1.2	0.0088	0.030	0.00075
	C-5	37.7645°	140.8603°	7.7	<0.5	2.0	12.4	8.3	0.05	0.8	3	1.7	0.0056	0.017	—
	C-6	37.7764°	140.8875°	7.7	<0.5	2.4	12.7	9.0	0.05	1.0	2	0.8	0.0036	0.012	—
Mano River	D-1	37.7331°	140.9254°	7.6	<0.5	2.2	13.4	10.5	0.06	1.1	<1	0.6	0.013	0.041	0.0013
	D-2	37.7095°	140.9565°	7.3	<0.5	2.3	12.7	12.1	0.07	1.2	<1	0.7	0.0054	0.016	—
	D-3	37.7051°	140.9623°	7.1	<0.5	4.5	12.2	12.2	0.07	0.9	<1	0.6	0.0053	0.014	—
	D-4 a	37.7309°	140.9081°	7.5	<0.5	2.7	12.2	10.2	0.06	1.1	3	1.3	0.0097	0.028	—
	D-4 b	37.7312°	140.9095°	7.5	<0.5	2.6	12.4	10.0	0.06	1.1	1	0.7	0.0093	0.025	—
	D-5	37.7216°	140.8895°	7.6	<0.5	3.1	12.8	9.0	0.05	1.2	<1	0.6	0.0098	0.031	—
Niida River	E-1	37.6615°	140.9114°	7.7	<0.5	3.4	11.9	7.5	0.05	1.6	5	3.6	0.056	0.17	0.0025
	E-2 a	37.6643°	140.9454°	7.5	<0.5	4.6	11.6	7.2	0.04	1.5	5	4.1	0.088	0.27	—
	E-2 b	37.6640°	140.9458°	7.5	<0.5	3.7	12.0	9.1	0.05	1.5	6	4.2	0.060	0.17	—
	E-3	37.6447°	141.0018°	7.5	0.7	3.4	11.5	9.0	0.05	1.4	5	3.4	0.050	0.15	—
	E-4	37.6463°	140.9658°	7.6	<0.5	3.4	12.2	7.8	0.05	1.5	6	3.7	0.054	0.16	—
Ota River	F-1	37.5974°	140.9248°	7.6	<0.5	2.4	11.8	5.5	0.04	1.0	2	1.0	0.081	0.25	—
	F-2	37.6015°	140.9436°	7.2	<0.5	2.6	11.9	6.3	0.04	0.9	2	0.9	0.061	0.18	0.0033
	F-3	37.6045°	140.9641°	7.4	<0.5	2.4	12.1	6.7	0.04	1.0	<1	0.6	0.052	0.15	—
	F-4	37.6070°	140.9721°	7.0	<0.5	2.2	10.2	7.2	0.04	0.8	1	0.5	0.038	0.12	—
	F-5	37.6023°	140.9874°	7.1	0.9	2.8	11.0	8.3	0.05	1.1	2	1.3	0.041	0.12	—
	F-6	37.5954°	141.0126°	7.5	0.6	2.9	11.3	16.5	0.09	1.5	4	1.9	0.036	0.11	—
Lake Hayama (Mano Dam)	G-1 (Surface layer)	37.7342°	140.8101°	7.2	<0.5	3.5	10.3	6.7	0.04	1.6	2	1.3	0.016	0.047	—
	G-1 (Deep layer)			7.3	<0.5	3.8	10.7	6.7	0.04	1.6	2	1.5	0.016	0.048	0.0014
	G-3 (Surface layer)	37.7292°	140.8315°	7.3	<0.5	3.7	10.4	6.8	0.04	1.6	3	1.5	0.018	0.055	—
	G-3 (Deep layer)			7.3	<0.5	3.6	10.5	6.8	0.04	1.7	1	1.3	0.017	0.055	—
	G-5 (Surface layer)	37.7342°	140.8088°	7.4	<0.5	3.4	10.2	6.8	0.04	1.7	2	1.2	0.018	0.054	—
Lake Akimoto	H-1 (Surface layer)	37.6584°	140.1275°	7.4	0.7	3.7	11.2	5.0	0.03	1.4	3	1.9	0.0050	0.015	—
	H-1 (Deep layer)			7.2	0.6	3.6	10.4	4.8	0.03	1.7	2	2.0	0.0042	0.015	—
	H-3 (Surface layer)	37.6648°	140.1306°	7.2	1.0	4.2	10.3	4.8	0.03	1.7	3	2.0	0.010	0.030	—
	H-3 (Deep layer)			7.2	0.7	4.2	10.5	4.8	0.03	1.5	2	2.2	0.0046	0.013	0.0014
	H-5 (Surface layer)	37.6540°	140.1530°	7.2	0.5	3.2	10.9	5.0	0.03	1.4	2	1.5	0.0049	0.014	—
	H-5 (Deep layer)			7.3	0.5	3.2	10.8	5.0	0.03	1.4	2	1.5	0.0050	0.013	—
Lake Inawashiro	I-1 (Surface layer)	37.5054°	140.1140°	7.0	<0.5	1.4	10.9	11.4	0.07	0.6	1	0.6	0.0049	0.015	—
	I-1 (Deep layer)			6.9	<0.5	1.3	11.2	11.7	0.07	0.6	1	0.5	0.0043	0.014	0.00085
	I-3 (Surface layer)	37.5086°	140.0270°	6.9	<0.5	1.1	11.0	11.5	0.07	0.6	<1	0.4	0.0043	0.016	—
	I-3 (Deep layer)			6.9	<0.5	1.3	11.3	11.5	0.07	0.6	<1	0.4	0.0049	0.015	—
	J-1 (Surface layer)	37.4206°	140.1008°	6.9	<0.5	1.4	11.1	11.6	0.07	0.7	1	0.6	0.0044	0.015	—
	J-1 (Deep layer)			6.9	<0.5	1.2	11.2	12.3	0.07	0.6	<1	0.4	0.0054	0.017	—
Off the mouth of the Abukuma River (Off Watari Town)	K-2 (Surface layer)			8.1	<0.5	1.5	9.4	4,620	29.60	0.9	2	1.5	0.0028	0.010	—
	K-2 (Deep layer)	38.0456°	140.9403°	8.0	<0.5	1.5	8.5	5,100	33.51	0.9	5	1.3	0.0032	0.010	0.00096
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9764°	8.1	<0.5	1.3	9.0	5,090	32.51	<1	2	0.7	0.0044	0.014	0.0011
	L-3	37.8217°	140.9765°	8.1	<0.5	1.6	9.1	5,110	32.62	1	4	1.5	0.0055	0.017	—
Off Iwaki City (Hisanohama)	M-2 (Surface layer)	37.1993°	141.0842°	8.1	<0.5	1.2	8.3	5,270	34.36	0.7	3	0.5	N.D.(0.0012)	0.0035	—
	M-2 (Deep layer)			8.1	<0.5	1.2	7.8	5,210	34.24	0.7	2	<0.2	N.D.(0.0012)	0.0043	0.00082

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

○ Results (sediments)

Location		2014 December 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	37.6207°	140.5220°	7.0	92	42.3	5.4	11.2	2.721	1.4	0.9	32.2	23.0	18.1	24.4	0.15	9.5	220	670	0.22
	A-2	37.5655°	140.3944°	7.0	314	23.1	1.9	2.1	2.744	16.8	44.7	23.9	4.2	0.6	3.8	1.1	19	29	110	—
	B-1	37.7847°	140.4920°	7.0	229	19.7	1.8	2.2	2.751	31.6	23.0	21.5	19.7	0.9	3.3	1.1	19	79	230	—
	B-2	37.8120°	140.5058°	7.1	300	27.8	1.7	1.7	2.765	0.0	1.1	46.5	49.2	1.4	1.8	0.24	2	60	190	—
	B-3	37.8162°	140.4719°	7.2	323	21.7	2.8	3.7	2.689	20.4	25.2	37.4	10.3	3.2	3.5	0.73	9.5	90	310	—
Uda River	C-1	37.7956°	140.7456°	7.1	332	29.4	3.9	3.3	2.727	10.8	55.0	28.8	4.0	1.0	0.4	1.1	9.5	230	770	—
	C-2	37.7708°	140.7273°	7.0	120	56.2	9.3	15.0	2.670	0.0	9.3	37.5	12.2	12.7	28.3	0.21	2	310	940	—
	C-4	37.7693°	140.8442°	7.2	267	19.5	1.3	1.3	2.728	36.4	30.8	29.2	2.5	0.8	0.3	1.4	19	200	620	0.70
	C-5	37.7645°	140.8603°	7.0	311	19.5	1.2	1.1	2.709	53.6	28.3	15.2	1.9	0.6	0.4	2.1	19	120	390	—
	C-6	37.7764°	140.8875°	7.1	312	19.9	1.1	1.1	2.741	32.3	30.3	31.6	4.2	1.0	0.6	1.2	19	100	340	—
Mano River	D-1	37.7331°	140.9254°	7.2	376	19.2	1.6	2.6	2.699	35.9	35.2	19.1	7.6	1.3	0.9	1.5	19	290	890	1.0
	D-2	37.7095°	140.9565°	7.1	397	19.1	1.1	1.2	2.711	18.4	48.4	30.0	2.3	0.5	0.4	1.1	19	160	490	—
	D-3	37.7051°	140.9623°	7.1	404	23.3	1.3	1.5	2.713	6.7	15.2	64.9	11.0	1.3	0.9	0.47	9.5	44	140	—
	D-4 a	37.7309°	140.9081°	7.2	413	19.9	1.6	1.4	2.738	18.4	40.7	35.8	4.0	0.7	0.4	1.0	19	310	1,000	—
	D-5	37.7216°	140.8895°	7.2	403	19.6	1.4	1.0	2.692	32.8	49.4	16.0	1.2	0.3	0.3	1.5	19	140	430	—
Niida River	E-1	37.6615°	140.9114°	7.2	224	16.2	0.9	1.2	2.672	28.8	44.8	22.8	2.1	1.0	0.5	1.4	9.5	270	890	0.21
	E-2 a	37.6643°	140.9454°	7.0	200	47.7	9.6	24.3	2.628	22.0	15.9	18.8	15.5	12.4	15.4	0.36	19	1,300	4,200	—
	E-3	37.6447°	141.0018°	7.1	335	19.4	1.0	1.4	2.673	6.8	24.3	64.7	2.5	1.1	0.6	0.66	9.5	100	320	—
	E-4	37.6463°	140.9658°	6.9	388	20.8	1.0	1.4	2.679	1.9	22.3	68.3	5.0	1.5	1.0	0.61	9.5	130	410	—
	E-5	37.6652°	140.9174°	7.0	382	18.7	1.6	1.6	2.692	20.1	30.4	41.7	5.0	1.1	1.7	0.86	9.5	330	1,100	—
Ota River	F-1	37.5974°	140.9248°	7.0	344	23.3	2.2	1.8	2.660	24.1	28.9	25.8	10.0	5.3	5.9	0.94	9.5	1,600	5,500	—
	F-2	37.6015°	140.9436°	7.0	344	13.1	0.6	1.1	2.658	42.5	38.4	16.7	1.4	0.9	0.1	1.7	19	820	2,600	N.D.(0.20)
	F-3	37.6045°	140.9641°	7.0	368	15.3	0.7	1.4	2.652	30.5	33.7	24.7	9.3	1.0	0.8	1.3	19	630	2,200	—
	F-4	37.6070°	140.9721°	6.9	381	16.7	0.6	1.0	2.652	28.0	42.8	24.1	4.3	0.7	0.1	1.3	9.5	520	1,700	—
	F-5	37.6023°	140.9874°	6.8	405	27.5	1.2	1.9	2.639	1.6	31.2	58.0	7.2	1.2	0.8	0.66	9.5	580	2,000	—
Lake Hayama (Mano Dam)	G-1	37.7342°	140.8101°	7.1	133	76.9	20.0	81.1	2.394	0.0	0.0	0.6	5.0	67.4	27.0	0.014	2	4,900	16,000	6.1
	G-2	37.7253°	140.8205°	7.0	122	74.6	13.2	42.0	2.502	0.0	0.2	1.4	4.8	39.8	53.8	0.0041	2	2,600	8,700	—
	G-3	37.7292°	140.8315°	7.2	146	52.0	7.8	16.6	2.630	12.3	10.6	16.9	13.1	22.6	24.5	0.11	19	870	2,800	—
	G-4	37.7382°	140.8041°	7.0	268	20.5	1.4	1.8	2.694	10.0	52.9	32.2	2.5	1.2	1.2	1.0	9.5	390	1,300	—
	G-5	37.7342°	140.8088°	6.9	189	43.2	5.6	11.8	2.627	30.1	25.5	22.2	5.8	4.8	11.6	1.0	19	710	2,400	—
Lake Akimoto	H-1	37.6584°	140.1275°	6.7	116	64.1	9.1	23.5	2.602	0.0	0.0	0.2	0.1	54.0	45.7	0.0060	2	83	310	—
	H-2	37.6624°	140.1234°	6.7	289	75.7	14.0	50.6	2.516	0.0	0.1	0.1	0.1	50.2	49.5	0.0052	2	190	650	—
	H-3	37.6648°	140.1306°	6.7	363	69.9	13.4	46.1	2.490	0.0	0.1	0.2	12.5	38.0	49.2	0.0054	2	550	1,800	1.8
	H-4	37.6540°	140.1182°	6.6	117	69.1	10.3	39.9	2.565	1.1	1.4	2.3	8.0	33.6	53.6	0.0030	9.5	290	900	—
	H-5	37.6540°	140.1530°	6.7	260	58.3	10.5	26.4	2.623	0.0	0.0	0.6	21.9	42.1	35.4	0.013	2	260	820	—
Lake Inawashiro	I-1	37.5054°	140.1140°	6.8	55	79.7	13.0	35.9	2.563	0.0	0.1	15.3	43.7	17.9	23.0	0.13	2	170	580	N.D.(0.33)
	I-2	37.5005°	140.1411°	7.1	215	60.0	6.9	16.6	2.633	0.0	3.1	5.3	43.8	24.6	23.2	0.092	2	150	490	—
	I-3	37.5086°	140.0270°	7.0	194	70.4	10.1	22.7	2.604	0.0	0.1	2.7	24.0	53.6	19.6	0.038	2	26	100	—
	I-4	37.5152°	140.1018°	6.7	279	28.0	1.5	1.8	2.764	16.4	19.9	53.6	9.0	0.9	0.2	0.65	19	19	67	—
	J-1	37.4206°	140.1008°	6.9	323	34.0	2.1	3.0	2.661	0.0	4.5	65.4	23.1	3.4	3.6	0.30	2	57	240	—
Off the mouth of the Abukuma River (OffWatarai Town)	K-1	38.0456°	140.9285°	7.7	196	21.7	1.4	0.7	2.751	0.0	6.2	59.3	28.6	2.0	3.9	0.36	2	14	49	—
	K-2	38.0456°	140.9403°	7.6	194	33.1	2.9	1.8	2.723	0.0	0.0	1.4	67.6	10.2	20.8	0.12	2	33	98	N.D.(0.20)
	K-3	38.0459°	140.9520°	7.6	34	47.0	6.9	12.4	2.679	0.0	0.1	0.2	25.7	35.6	38.4	0.018	2	130	420	—
Off Soma City (Matsukawaura)	L-1	37.8211°	140.9608°	7.5	64	39.6	5.1	10.4	2.668	0.9	0.9	6.5	46.1	17.7	27.9	0.098	4.75	65	230	—
	L-2	37.8155°	140.9764°	7.6	184	19.9	1.0	0.9	2.737	0.0	0.7	58.8	36.6	0.1	3.8	0.27	2	2.6	8.9	N.D.(0.19)
	L-3	37.8217°	140.9765°	7.9	84	21.0	1.3	1.1	2.731	0.0	0.8	54.6	38.9	1.8	3.9	0.27	2	5.4	17	—
Off Iwaki City (Hisanohama)	M-1	37.1740°	141.0797°	8.1	191	26.4	2.1	1.6	2.766	0.0	0.6	1.7	85.0	6.5	6.2	0.15	2	22	72	—
	M-2	37.1993°	141.0842°	8.2	257	25.7	2.0	1.5	2.797	0.0	2.6	3.7	88.1	1.4	4.2	0.16	2	10	39	N.D.(0.16)
	M-3	37.2321°	141.0932°	8.2	254	26.2	2.1	1.2	2.793	0.0	4.1	5.2	84.7	1.8	4.2	0.16	2	22	74	—

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

Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 December Survey)

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					
Andama River	A-2	Harase River	2014/12/3	Algae/plant	—	—	—	River bottom materials (incl. algae)	Considerable number	0.074	—	—	—	333	73	260	—			
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	134	0.010	Larva	—	—	—	149	39	110	—	
				Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena											
				Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus	70	0.038	Larva (dragonfly larva)	—	—	—	16.8	3.8	13	—	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae											
				Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaeonops</i>	Asiagomphus melaeonops											
				Arthropod	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina sp.	494	0.075	Imago	—	—	—	21.7	5.7	16	—	
				Mollusca	Gastropoda	Sorbococoncha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	65	0.086	Imago	—	—	Molluscan body	31.2	7.2	24	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus logowskii steindachneri</i>	Amur Minnow	6	0.020	Immature fish/mature fish	—	—	—	19.3	5.3	14	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	7	0.011	Immature fish	—	—	—	14	N.D.(5.2)	14	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	38	0.045	Immature fish/mature fish	—	—	—	13.8	2.8	11	—	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.090	Immature fish/mature fish	Aquatic insects	—	Viscera removed	4.3	1.1	32	—	
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	3	0.015	Imago	—	—	—	15.9	2.9	13	—	
	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	7	0.047	Imago	—	—	—	17.9	4.9	13	—				
	coarse particulate organic matters (CPOMs)	—	—	—	—	—	—	fallen leaves	Considerable number	0.24	—	—	—	51	12	39	—			
	B-3	Surikami River	2014/12/2 2014/12/11	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.057	—	—	—	91	23	68	—		
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephenera strigata</i>	Ephemeridae	600	0.030	Larva	—	—	—	72	18	54	—	
				Arthropoda	Insecta	Plecoptera	Plecoptera	<i>Kamimura tibialis</i>	Kamimura tibialis	292	0.016	Larva	—	—	N.D.	N.D.(2.9)	N.D.(2.6)	—		
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	196	0.061	Larva	—	—	—	8.4	2.3	6.1	—	
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	340	0.058	Larva	—	—	—	31.4	7.4	24	—	
				Arthropod	Insecta	Odonata	Cordulidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena											
				Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus	113	0.034	Larva (dragonfly larva)	—	—	—	44	11	33	—	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae											
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus											
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius											
Arthropod				Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.011	Imago	—	—	—	15.4	4.4	11	—		
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.064	Mature fish (2-year-old)	Many unknown content	—	Viscera removed	25.8	6.8	19	—		
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	10	0.041	Immature fish/mature fish	—	—	—	16.0	4.0	12	—					
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.11	Mature fish (2-year-old)	Insects, aquatic insects	—	Viscera removed	11.4	2.8	8.6	—					
Vertebrata	Amphibia	Anura	—	—	Frogs	32	0.026	Larva (tadpoles)	—	—	—	99	24	75	—					
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	1	0.029	Imago	—	—	—	12.4	3.9	8.5	—					
coarse particulate organic matters	—	—	—	—	—	—	fallen leaves	Considerable number	0.48	—	—	—	42.8	9.8	33	—				

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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.
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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													
Uda River	C-6	—	2014/12/7	Algae/plant	—	—	—	River bottom materials (incl. algae)	Considerable number	0.047	—	—	—	76	17	59	—											
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	179	0.021	Larva	—	—	—	91	23	68	—									
				Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	58	0.012	Larva (dragonfly larva)	—	—	15.7	4.7	11	—										
				Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius																			
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatas</i>	Sinogomphus flavolimbatas																			
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paraya improvisa</i>	Freshwater shrimp										571	0.078	Imago	—	—	—	22.2	5.2	17	—
				Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab										2	0.039	Imago	—	—	—	30.1	7.1	23	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	6	0.019	Immature fish/mature fish	—	—	—	25.7	6.7	19	—									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	186	0.067	Immature fish	—	—	—	24.2	5.2	19	—									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	R. sp. CB	19	0.054	Mature fish	—	—	—	34.5	8.5	26	—									
				coarse particulate organic matters	—	—	—	—	fallen leaves	Considerable number	0.21	—	—	—	—	223	53	170	—									

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				
Mano River	D-4a D-4b	—	2014/12/2 2014/12/9	Algae/plant	—	—	—	River bottom materials (incl. algae)	Considerable number	0.043	—	—	—	338	78	260	—		
				Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia japonica</i>	Isonychidae	309	0.011	Larva	—	—	—	100	24	76	—
				Arthropoda	Insecta	Plecoptera	Ephemeropteroidae	<i>Kamimura tibialis</i>	Kamimura tibialis	410	0.021	Larva	—	—	—	12.6	2.9	9.7	—
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	256	0.020	Larva	—	—	—	183	43	140	—
				Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	43	0.012	Larva (dragonfly larva)	—	—	41.9	9.9	32	—	
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus										
				Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
				Arthropod	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	Anax parthenope										
				Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani	40	0.024	Larva	—	—	—	75	20	55	—
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paraya improvisa</i>	Freshwater shrimp										
				Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	26	0.034	Imago	—	—	Molluscan body	62	15	47	—
				Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	20	0.018	Mature fish	—	—	—	10.8	2.5	8.3	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.019	Mature fish	Few unknown content	Viscera removed	—	104	24	80	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus	3	1.5	Mature fish	Many unknown content	Viscera removed	—	44	11	33	—
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	R. sp. CB	9	0.026	Mature fish	—	—	—	88	23	65	1.3
				coarse particulate organic matters	—	—	—	—	fallen leaves	Considerable number	0.23	—	—	—	—	224	54	170	—

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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	—	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.060	—	—	—	1,230	290	940	—							
							Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Epeorus curvatus</i>	<i>Epeorus curvatus</i>	1,104	0.012	Larva	—	—	232	62	170	—		
							Arthropod	Insecta	Ephemeroptera	Heptageniidae	<i>Epeorus itanonus</i>	<i>Epeorus itanonus</i>											
							Arthropod	Insecta	Ephemeroptera	Heptageniidae	<i>Rhythrogena sp.</i>	<i>Rhythrogena japonica</i>	630	0.033	Larva	—	—	62	13	49	—		
							Arthropod	Insecta	Ephemeroptera	Schistonota	Heptageniidae	Heptageniidae											
							Arthropod	Insecta	Plecoptera	Plecoptera	<i>Kamimuria tibialis</i>	<i>Kamimuria tibialis</i>	164	0.024	Larva	—	—	900	200	700	—		
							Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>											
							Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	46	0.011	Larva (dragonfly larva)	—	—	156	36	120	—		
							Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Onychogomphus viridicostus</i>											
							Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	<i>Davidius nanus</i>	29	0.094	Imago	—	—	160	40	120	—		
							Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>											
							Arthropod	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	<i>Anisogomphus maacki</i>	96	0.015	Imago	—	—	171	41	130	—		
							Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>											
							Arthropod	Insecta	Odonata	Aeshmidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	4	0.090	Imago	—	—	156	36	120	—		
							Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crayfish											
							Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisca</i>	Freshwater shrimp	16	0.036	Imago	—	—	124	29	95	—		
							Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab											
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	0.018	Imature fish (under 1-year old)	—	—	141	31	110	—		
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub											
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	R. sp. CB	3	0.010	Mature fish	—	—	286	76	210	—		
														fallen leaves	Considerable number	0.25	—	—	—	520	130	390	—
							Ota River	F-1	—	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.051	—	—	—	1,840	440	1,400	—
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	Mont mayfly	272								0.0087	Larva	—	—	—	1,450	350	1,100	—	
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Oyamia seminigra</i>	<i>Oyamia lugubris</i>	144								0.0096	Larva	—	—	128	32	96	—		
Arthropoda	Insecta	Ephemeropteroidea	Ephemeropteroidea	<i>Kamimuria tibialis</i>	<i>Kamimuria tibialis</i>																		
Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	112								0.010	Larva	—	—	1,190	280	910	—		
Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>																		
Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	227								0.075	Larva (dragonfly larva)	—	—	660	160	500	—		
Arthropod	Insecta	Odonata	Gomphidae	<i>Sylogomphus suzukii</i>	<i>Sylogomphus suzukii</i>																		
Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Onychogomphus viridicostus</i>	39								0.025	Larva	—	—	288	78	210	—		
Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>																		
Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	<i>Davidius nanus</i>	607								0.13	Imago	—	—	1,030	230	800	—		
Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>																		
Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>	1								0.098	Imago	—	—	780	190	590	—		
Arthropod	Insecta	Odonata	Aeshmidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>																		
Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	24								0.031	Imago	—	Molluscan body	267	67	200	—		
Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisca</i>	Freshwater shrimp																		
Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	130								0.086	Imature fish	—	—	720	170	550	—		
Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>																		
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7								0.097	Mature fish	—	—	450	110	340	—		
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub																		
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgonyx anguillicaudatus</i>	Oriental weatherfish	1								0.015	Mature fish	—	—	630	150	480	—		
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	R. fluviatilis																		
														fallen leaves	Considerable number	0.27	—	—	—	234	54	180	—

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										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137											
Lake Hayama	G-1,G-2,G-3	In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	1	0.68	Mature fish	Empty stomach	Viscera removed	38	10	28	—									
		In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Microperterus dolomieu</i>	Small mouth bass	1	0.67	Mature fish	Empty stomach	Viscera removed	1,320	320	1,000	—									
		In the lake	Algae/plant	—	—	—	—	Plankton	Considerable number	0.014	—	—	—	4.5	N.D.(2.1)	4.5	—									
	G-4	Inflowing rivers	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.066	—	—	—	630	140	490	—									
		Inflowing rivers	Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	27	0.012	Larva (dragonfly larva)	—	—	166	36	130	—									
		Inflowing rivers	Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>albardae</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius fujama</i>	<i>Davidius fujama</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	<i>Davidius nanus</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>																		
		Inflowing rivers	Arthropod	Insecta	Odonata	Aeshmidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>																		
		Inflowing rivers	Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp																		
		Inflowing rivers	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace																		
		Inflowing rivers	coarse particulate organic matters	—	—	—	—	fallen leaves										Considerable number	0.29	—	—	—	247	57	190	—
		Lake Akimoto	H-1 H-2 H-3 (Including the Nakatsu River area) Near H-4	In the lake	Algae/plant	—	—	—										Plankton	Considerable number	0.014	—	—	—	490	110	380
In the lake	Arthropod			Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										29	0.035	Larva (dragonfly larva)	—	—	—	11.6	2.8	8.8
In the lake	Arthropod			Malacostraca	Decapoda	Astacidae	<i>Pacifastacus lenisculus trowbridgii</i>	Signal crayfish	32	2.0	Imago	—	—	—	44	11	33	8.6								
In the lake	Mollusca			Gastropoda	Sorbocoencha	Pleuroceridae	<i>Semioleospira libertina</i>	<i>Semioleospira libertina</i>	94	0.069	Imago	—	Molluscan body	—	—	—	15.1	4.1	11	—						
In the lake	Vertebrata			Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	52	0.27	Mature fish	—	—	—	25.2	6.2	19	—								
In the lake	Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	1.5	Mature fish	Algae	Viscera removed	—	—	—	50	12	38	0.73						
In the lake	Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	1.8	Mature fish	Many unknown content	Viscera removed	—	—	—	100	24	76	0.90						
In the lake	Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	<i>Carassius</i>	10	1.5	Mature fish (3-year-old)	Many unknown content	Viscera removed	—	—	—	68	15	53	1.2						
In the lake	Vertebrata			Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	11	1.2	Immature fish/mature fish	Lake smelt	Viscera removed	—	—	—	42.2	9.2	33	0.34						
In the lake	Vertebrata			Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	8	0.099	Imago	—	—	—	—	—	34.7	7.7	27	—						
Inflowing rivers	coarse particulate organic matters			—	—	—	—	fallen leaves	Considerable number	0.23	—	—	—	—	85	20	65	—								

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Results of Radionuclide Analysis of Aquatic Organisms, Radioactive
Material Monitoring in the Water Environment (2014 December Survey)

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Lake Inawashino	I-1, I-2 (north lakeside)	—	2014/12/3	coarse particulate organic matters	—	—	—	fallen leaves	Considerable number	0.45	—	—	—	23.9	5.9	18	—		
	J-1 (south lakeside)	—	2014/12/2	Angiospermae	Dicotyledonae	Nymphaeales	Nymphaeaceae	<u>Nuphar japonicum</u>	Cow lily	Considerable number	0.18	—	—	—	0.98	N.D.(0.49)	0.98	—	
				Mollusca	Gastropoda	Sorbococoncha	Pleuroceridae	<u>Semisulcospira libertina</u>	Semisulcospira libertina	22	0.025	—	—	—	10.6	2.4	8.2	—	
				Mollusca	Gastropoda	Archifalaenoglossa	Viviparidae	<u>Bellamya japonica</u>	Japanese mysterysnail	48	0.36	—	—	—	10.6	0.73	N.D.(0.61)	0.73	—
				Vertebrata	Amphibia	Anura	—	—	Frogs	10	0.016	—	—	—	—	2.2	N.D.(2.6)	2.2	—
				Vertebrata	Amphibia	Anura	Ranidae	<u>Rana rugosa</u>	Wrinkled Frog	14	0.062	—	—	—	—	1.5	N.D.(1.1)	1.5	—
				Algae/plant	—	—	—	—	Plankton	Considerable number	0.014	—	—	—	—	9.1	N.D.(2.9)	9.1	—

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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					
Off the mouth of the Abukuma River	—	2014/12/11	Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae	<i>Platycephalus sp.</i>	Flathead	1	0.47	Mature fish (3-year-old)	Fish	Viscera removed	3.32	0.52	2.8	—			
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	1	3.7	Mature fish (6-year-old)	Empty stomach	Viscera removed	6.4	1.5	4.9	N.D.(0.019)			
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	2	0.025	Mature fish (1-year-old)	Gammaridea	Viscera removed	2.6	N.D.(1.8)	2.6	—			
Off Sakuma City	L-1 L-2 L-3	2014/12/10	Algae/plant	—	—	—	—	Plankton	Considerable number	0.013	—	—	—	12.3	2.9	9.4	—			
			Angiospermae	Monocotyledones	Najadales	Zosteraceae	<i>Zostera marina</i>	eel grass	Considerable number	0.28	—	—	—	N.D.	N.D.(0.36)	N.D.(0.32)	—			
			Chlorophyta	Ulvophyceae	Ulvales	Ulvaaceae	<i>Ulva pertusa</i>	Ulva pertusa	Considerable number	0.32	—	—	—	0.80	0.33	0.47	—			
			Arthropoda	Malacostraca	Mysida	Mysidae	<i>Neomysis intermedia</i>	neomysis	Considerable number	0.059	Imago	—	—	—	1.6	N.D.(0.68)	1.6	—		
			Arthropod	Malacostraca	Decapoda	Alpheidae	<i>Alpheus brevicristatus</i>	Alpheidae	12	0.012	Imago	—	—	—	3.1	N.D.(2.9)	3.1	—		
			Arthropoda	Malacostraca	Decapoda	Palaemonidae	Palaemonidae	Macrobrachium	102	0.047	Imago	—	—	—	1.5	N.D.(0.85)	1.5	—		
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	210	0.37	Imago	—	—	—	10.6	2.5	8.1	—		
			Annelida	Polychaeta	Phyllodocta	Nereididae	Hediste sp.	Hediste	83	0.034	Imago	—	—	—	29.4	7.4	22	—		
			Mollusca	Bivalvia	Pterioida	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster	76	4.9	Imago	—	—	Molluscan body	2.45	0.45	2.0	—		
			Mollusca	Bivalvia	Veneridae	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	79	2.3	Imago	—	—	Molluscan body	1.87	0.67	1.2	—		
			Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Tidepool gunnel	12	0.031	Mature fish	—	—	—	N.D.	N.D.(2.1)	N.D.(1.7)	—		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	3	0.26	Mature fish	—	—	—	4.4	1.1	3.3	—		
			Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	1	0.023	Immature fish	—	—	—	20.2	5.2	15	—		
			Off Iwaki City	M-1 M-2 M-3 M-4	2014/12/12	Phaeophyta	Phaeophyceae	Laminariales	Alariaceae	<i>Undaria undarioides</i>	Undaria undarioides (Yendo)	Considerable number	0.24	—	—	—	2.80	0.70	2.1	—
						Echinoderm	Echinoidea	Echinoidea	Strongylocentrotida	<i>Strongylocentrotus nudus</i>	Northern sea urchin	37	3.1	Imago	—	—	—	1.86	0.46	1.4
Mollusca	Gastropoda	Archaeogastropod				Halotis asinina	<i>Halotis discus</i>	Abalone	6	0.92	Imago	—	—	Molluscan body	N.D.	N.D.(0.32)	N.D.(0.30)	—		
Vertebrata	Osteichthyes	Pleuronectiformes				Pleuronectiformes	<i>Pseudopleuronectes herzensteini</i>	Yellow striped flounder	5	2.0	Mature fish (3-year-old)	Annelida	Viscera removed	5.3	1.4	3.9	0.044			
Vertebrata	Osteichthyes	Pleuronectiformes				Pleuronectiformes	<i>Pleuronectes yokohamae</i>	Marbled sole	4	2.6	Mature fish (3-year-old)	Crustaceans, Clams	Viscera removed	3.76	0.96	2.8	0.024			
Vertebrata	Osteichthyes	Pleuronectiformes				Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	2.5	Mature fish (4-year-old)	Empty stomach	Viscera removed	1.55	0.45	1.1	N.D.(0.017)			
Vertebrata	Osteichthyes	Perciformes				Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	1	2.0	Mature fish (5-year-old)	Fish	Viscera removed	18.1	4.1	14	—			
Vertebrata	Osteichthyes	Perciformes				Sparidae	<i>Eynniss japonica</i>	Crimson sea-bream	1	0.90	Mature fish (5-year-old)	Crustaceans	Viscera removed	1.87	0.37	1.5	—			
Vertebrata	Chondrichthyes	Rajiformes				Rajidae	<i>Okamejei kenoei</i>	Slate	3	2.1	Mature fish	Fish, crustaceans	Viscera removed	21.0	5.0	16	0.16			
Vertebrata	Chondrichthyes	Carcharhiniformes				Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	3	2.4	Mature fish	Crustaceans	Viscera removed	2.13	0.43	1.7	N.D.(0.016)			

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