

○ Results (water)

Locations				2019 June Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric 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)	37.6210°	140.5218°	7.3	1.4	5.6	8.7	18.3	0.09	2.7	12	5.3	0.0028	0.053	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.4	1.5	5.1	8.9	18.4	0.09	2.7	14	6.5	0.0035	0.052	-
	A-2	37.5673°	140.3946°	7.3	0.9	4.1	9.8	12.1	0.06	1.4	6	2.8	0.0016	0.020	-
	B-2	37.8121°	140.5058°	7.4	1.2	5.4	9.3	16.9	0.09	2.4	11	5.5	0.0023	0.027	-
	B-3	37.8182°	140.4679°	7.3	0.8	3.3	10.1	8.0	0.04	1.2	4	2.3	N.D.(0.0016)	0.0095	-
Uda River	C-6	37.7764°	140.8877°	7.1	1.6	3.6	8.0	12.9	0.07	1.5	4	3.6	N.D.(0.0013)	0.019	0.0011
Mano River	D-4 a	37.7308°	140.9081°	8.6	0.8	3.2	14.5	13.3	0.07	1.1	1	1.5	N.D.(0.0011)	0.012	0.00091
Niida River	E-2 a	37.6640°	140.9447°	6.9	1.1	4.1	10.1	10.6	0.06	1.4	10	9.9	0.0065	0.078	0.0022
Ota River	F-1	37.5975°	140.9252°	7.7	0.8	3.5	9.3	7.1	0.04	1.1	1	1.2	0.019	0.24	0.0047
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7310°	140.8121°	7.2	1.0	5.4	9.1	8.8	0.05	1.7	4	5.0	0.0077	0.088	-
	G-1(Bottom layer)	37.7310°	140.8121°	7.2	0.8	5.6	8.2	9.1	0.05	1.8	5	5.4	0.0065	0.085	0.0014
	G-4	37.7382°	140.8035°	7.6	<0.5	2.5	9.5	9.2	0.05	1.1	1	0.8	0.0016	0.019	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.2	0.6	3.4	9.3	3.9	0.03	1.4	<1	1.1	N.D.(0.0015)	0.0039	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.9	0.6	3.5	10.3	4.0	0.03	1.9	1	1.3	N.D.(0.0018)	0.0095	0.0012
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.8	<0.5	1.4	9.9	11.8	0.06	0.6	<1	0.6	N.D.(0.0014)	0.0054	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.8	0.6	1.7	9.9	11.9	0.06	0.8	2	0.8	N.D.(0.0016)	0.0065	0.00094
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.1	<0.5	4.2	8.4	2500	18.56	1.8	5	3.8	N.D.(0.0014)	0.0090	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.0	<0.5	2.0	8.4	4910	33.46	1.1	6	5.5	N.D.(0.0015)	0.0092	0.0010
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	0.7	4.6	8.7	4290	28.31	2.1	17	8.2	N.D.(0.0017)	0.030	0.0011
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.9	1.5	8.4	5020	33.75	1.2	2	0.8	N.D.(0.0015)	0.0044	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.6	1.2	8.2	5020	33.67	0.9	3	1.0	N.D.(0.0015)	0.0046	0.0012

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

Note) G-1 was moved to downstream 500m in the spring survey due to drought.

○ Results (sediments)

Locations				2019 June Survey																
				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°	7.2	56	52.5	6.7	18.2	2.665	0.5	1.3	23.4	18.5	28.5	27.8	0.043	4.8	38	490	0.46
	A-2	37.5673°	140.3946°	6.7	278	27.0	2.8	6.9	2.726	22.0	28.5	30.5	6.2	4.9	7.9	0.87	9.5	20	250	-
	B-2	37.8121°	140.5058°	7.1	280	27.0	1.8	2.1	2.713	0.5	4.1	72.5	17.2	0.9	4.8	0.37	4.8	9.2	130	-
	B-3	37.8182°	140.4679°	7.0	263	20.8	2.3	3.9	2.664	29.3	37.0	23.0	6.3	2.3	2.1	1.3	9.5	9.3	140	-
Uda River	C-6	37.7764°	140.8877°	7.5	278	22.8	1.8	2.0	2.692	8.9	43.0	33.7	7.9	2.7	3.8	0.89	4.8	11	140	0.64
Mano River	D-4 a	37.7308°	140.9081°	7.4	368	18.4	1.7	2.2	2.708	30.2	48.0	17.5	2.3	2.0		1.4	9.5	22	300	0.65
Niida River	E-2 a	37.6640°	140.9447°	7.2	263	63.0	11.4	42.6	2.536	2.4	6.2	9.6	17.1	35.3	29.4	0.029	4.8	490	6500	1.1
Ota River	F-1	37.5975°	140.9252°	7.1	242	27.3	2.0	4.2	2.639	5.0	29.4	44.9	10.3	4.9	5.5	0.60	4.8	220	2800	0.76
Lake Hayama (Mano Dam)	G-1	37.7310°	140.8121°	7.0	92	93.9	16.8	52.5	2.481	0.0	0.0	0.1	2.7	64.0	33.2	0.0098	0.85	710	9500	5.2
	G-4	37.7382°	140.8035°	7.3	276	28.2	3.1	3.1	2.673	9.4	46.3	32.7	4.9	2.6	4.1	0.94	9.5	35	470	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.9	31	66.0	8.9	27.7	2.552	0.0	0.0	0.1	0.4	56.7	42.8	0.0067	4.8	89	1200	1.3
Lake Inawashiro	J-1	37.4203°	140.1008°	6.6	389	26.8	0.8	1.5	2.791	0.3	0.9	72.3	25.0	1.5		0.31	9.5	0.26	4.6	N.D.(0.13)
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.7	262	55.2	6.5	13.6	2.662	0.0	0.1	0.2	11.1	78.7	9.9	0.030	2.0	21	300	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	285	23.5	0.9	1.2	2.728	0.5	2.7	76.5	18.9	1.4		0.34	4.8	0.45	6.5	N.D.(0.12)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.8	298	25.8	1.8	1.7	2.764	1.3	1.3	3.9	88.9	1.1	3.5	0.16	4.8	1.7	21	N.D.(0.13)

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

Note) G-1 was moved to downstream 500m in the spring survey due to drought.

○ Results (aquatic organisms)

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific 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-1	The main stream of the Abukuma River	2019/5/31	Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida	124	0.014	Larva	-	-	41.5	3.5	38	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	33	0.016	Larva(Dragonfly larva)	-	-	4.8	N.D.(1.9)	4.8	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Melligomphus viridicostus</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	Anax parthenope julius									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.032	Juvenile,Imago	-	-	5.7	N.D.(1.6)	5.7	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	408	0.072	Juvenile,Imago	-	-	25.8	1.8	24	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.018	Immature fish	-	-	11	N.D.(2.3)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	4	0.033	Immature fish,Mature fish	-	-	9.5	N.D.(1.5)	9.5	-
			2019/6/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	4	1.5	Mature fish	-	-	3.78	0.38	3.4	0.32
			2019/5/31	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	81	0.23	Immature fish,Mature fish	-	-	3.0	N.D.(0.33)	3.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	4	0.033	Mature fish	-	-	2.2	N.D.(1.4)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	38	0.35	Immature fish	-	-	2.4	N.D.(0.25)	2.4	-
			2019/6/1	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.8	Immature fish,Mature fish	Red swamp crawfish,Gnathopogon elongatus	Viscera removed	9.58	0.68	8.9	0.24
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	4	2.3	Immature fish	Red swamp crawfish,mammals, Terrestrial insect,Elmidae,Psep henidae	Viscera removed	18.0	1.0	17	0.23
			2019/5/31	Vertebrata	Amphibia	Anura	-	-	Frog	57	0.027	Larva(Tadpole)	-	-	358	28	330	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	<u>Japanese brown frog</u>	16	0.059	Imago	-	-	29.5	2.5	27	-
				Vertebrata	Amphibia	Anura	Hylidae	<i>Hyla japonica</i>	Japanese tree flog									
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog									
	A-2	Harase River	2019/5/31	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0099	-	-	-	70.4	5.4	65	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	120	0.048	Larva	-	-	28.2	2.2	26	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	69	0.062	Larva(Dragonfly larva)	-	-	6.1	N.D.(1.2)	6.1	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	8	0.075	Juvenile,Imago	-	-	17.5	1.5	16	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	458	0.090	Juvenile,Imago	-	-	8.58	0.78	7.8	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.026	Imago	-	Molluscous part	5.8	N.D.(2.7)	5.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	91	0.19	Immature fish,Mature fish	-	-	5.0	N.D.(0.38)	5.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	18	0.024	Immature fish	-	-	3.3	N.D.(2.3)	3.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	5	0.043	Immature fish,Mature fish	-	-	14	N.D.(1.6)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	30	0.11	Immature fish,Mature fish	-	-	7.3	N.D.(0.65)	7.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	23	0.12	Immature fish	-	-	3.7	N.D.(0.67)	3.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	5	0.066	Immature fish	-	-	6.8	N.D.(1.1)	6.8	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	9	0.017	Ammocoetes(larva)	-	-	20	N.D.(2.9)	20	-
				Vertebrata	Amphibia	Anura	-	-	Frog	140	0.070	Larva(Tadpole)	-	-	139.7	9.7	130	-
				Vertebrata	Amphibia	Anura	Hylidae	<i>Hyla japonica</i>	Japanese tree flog	5	0.021	Imago	-	-	7.5	N.D.(2.1)	7.5	-
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog									
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	3	0.030	Imago	-	-	6.4	N.D.(2.1)	6.4	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	24.1	2.1	22	-

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

*6: 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.

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

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

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific 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	B-2	The main stream of the Abukuma River	2019/5/30	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	3.0	Mature fish	-	-	6.4	1.0	5.4	0.18
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	5.0	Mature fish	Obscure digesta	Viscera removed	8.77	0.57	8.2	0.26
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	3.5	Mature fish	Empty stomach	Viscera removed	21.9	1.9	20	0.17
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	3.5	Mature fish	Japanese mitten Crab	Viscera removed	14.2	1.2	13	0.18
	B-3	Surikami River	2019/6/1	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.076	-	-	-	42.6	4.6	38	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.17	-	-	-	10.61	0.81	9.8	-
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.21	-	-	-	4.3	N.D.(0.37)	4.3	-
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	Mont mayfly	95	0.0096	Larva	-	-	11	N.D.(4.1)	11	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	237	0.083	Larva	-	-	16.89	0.89	16	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	52	0.039	Larva(Dragonfly larva)	-	-	5.2	N.D.(1.6)	5.2	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Melligomphus viridicostus</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	53	0.047	Larva	-	-	1.6	N.D.(1.3)	1.6	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	7	0.084	Juvenile,Imago	-	-	11	N.D.(0.80)	11	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.035	Imago	-	Molluscouous part	10	N.D.(1.6)	10	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	51	0.48	Immature fish	-	-	4.3	N.D.(0.44)	4.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	64	0.31	Immature fish,Mature fish	-	-	3.4	N.D.(0.38)	3.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.079	Immature fish	-	-	5.3	N.D.(0.90)	5.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	7	0.0097	Immature fish	-	-	3.4	N.D.(3.5)	3.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	42	0.16	Immature fish,Mature fish	-	-	5.5	N.D.(0.44)	5.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	24	0.20	Immature fish	-	-	4.28	0.38	3.9	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	7	0.060	Immature fish	-	-	4.7	N.D.(1.2)	4.7	-
				Vertebrata	Amphibia	Anura	-	-	Frog	14	0.018	Larva(Tadpole)	-	-	71.7	5.7	66	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	5	0.057	Imago	-	-	4.2	N.D.(1.1)	4.2	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.28	-	-	-	17.2	1.2	16	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific 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	The main stream of the Uda River	2019/6/2	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0062	-	-	-	28	N.D.(5.3)	28	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.34	-	-	-	8.49	0.69	7.8	-
				Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	Potamanthus formosus	1504	0.051	Larva	-	-	19.4	1.4	18	-
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	Siphonuridae									
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera orientalis</i>	Ephemera orientalis									
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	Ephemera japonica									
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	Mont mayfly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata									
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	74	0.0082	Larva(Dragonfly larva)	-	-	4.4	N.D.(3.8)	4.4	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	Anisogomphus maacki									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	4	0.036	Imago	-	-	7.2	N.D.(1.7)	7.2	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	83	0.021	Juvenile,Imago	-	-	5.5	N.D.(2.0)	5.5	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.18	Juvenile	-	-	6.83	0.53	6.3	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.29	Mature fish	Japanese mitten Crab	Viscera removed	9.05	0.65	8.4	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	1	0.050	Immature fish	Paragnetina	Viscera removed	14.1	1.1	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.025	Immature fish	-	-	6.1	N.D.(2.6)	6.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	4	0.027	Immature fish	-	-	3.7	N.D.(1.7)	3.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	5	0.048	Immature fish	-	-	9.4	1.1	8.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	2	0.048	Immature fish	-	-	8.8	N.D.(1.1)	8.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	1	0.0090	Mature fish	-	-	12	N.D.(4.3)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	12	0.027	Immature fish,Mature fish	-	-	3.6	N.D.(2.0)	3.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	4	0.029	Immature fish,Mature fish	-	-	3.2	N.D.(2.1)	3.2	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	8	0.10	Immature fish	-	-	17.2	1.2	16	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	12	0.072	Immature fish	-	-	11.97	0.97	11	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	30	0.090	Mature fish	-	-	10.30	0.90	9.4	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.032	Mature fish	-	-	9.7	N.D.(1.8)	9.7	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	3	0.032	Immature fish,Mature fish	-	-	4.7	N.D.(1.7)	4.7	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	3	0.011	Ammocoetes(larva)	-	-	3.7	N.D.(3.1)	3.7	-
				Vertebrata	Amphibia	Anura	-	-	Frog	198	0.12	Larva(Tadpole)	-	-	84.1	7.1	77	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	<u>American bullfrog</u>	2	0.0048	Imago	-	-	7.5	N.D.(6.0)	7.5	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	<u>Wrinkled frog</u>									
				Coarse Particulate Organic Matter				-	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Mano River	D-3	The main stream of the Mano River	2019/6/4	Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.023	Imago	-	-	8.4	N.D.(2.4)	8.4	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.21	Immature fish	Japanese mitten Crab	Viscera removed	20.5	1.5	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	1	0.031	Mature fish	-	-	5.0	N.D.(2.0)	5.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.5	Mature fish	Obscure digesta	Viscera removed	6.43	0.43	6.0	0.33
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	3	0.0083	Immature fish	-	-	10	N.D.(4.7)	10	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	2	0.029	Immature fish	-	-	17	N.D.(2.1)	17	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	2	0.0062	Immature fish	-	-	N.D.	N.D.(5.6)	N.D.(4.8)	-
				Vertebrata	Amphibia	Anura	-	-	Frog	33	0.0066	Larva(Tadpole)	-	-	203	13	190	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	129	2.6	Larva(Tadpole)	-	-	62.1	5.1	57	0.076
	D-4 b	The main stream of the Mano River	2019/6/5	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.010	-	-	-	66.8	5.8	61	-
				Algae/plant	-	-	-	<i>Bryophyta</i>	Bryophyte	-	0.23	-	-	-	55.9	3.9	52	-
				Algae/plant	Zygnemataphyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.31	-	-	-	6.39	0.49	5.9	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	34	0.0074	Larva	-	-	31	N.D.(5.2)	31	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	27	0.0076	Larva(Dragonfly larva)	-	-	18	N.D.(4.9)	18	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<u>Stylogomphus suzukii</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	25	0.025	Larva	-	-	10	N.D.(2.1)	10	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.033	Imago	-	-	61.2	4.2	57	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	50	0.087	Imago	-	-	16.3	1.3	15	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratyia improvisa</i>	Freshwater shrimp	182	0.054	Juvenile	-	-	16.6	1.6	15	-
				Mollusca	Bivalvia	Unionoida	Unionidae	<i>Inversiunio jokohamensis</i>	Inversiunio jokohamensis	8	0.025	Juvenile	-	Molluscouc part	32	N.D.(2.4)	32	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	21	0.022	Imago	-	Molluscouc part	24	N.D.(2.6)	24	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	0.19	Immature fish,Mature fish	Protohermes grandis	Viscera removed	24.6	1.6	23	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	27	0.069	Immature fish,Mature fish	-	-	10.8	1.0	9.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	18	0.12	Immature fish	-	-	18.7	1.7	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	8	0.036	Immature fish	-	-	7.0	N.D.(2.2)	7.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	3	0.0063	Mature fish	-	-	16	N.D.(5.4)	16	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.0087	Immature fish	-	-	24	N.D.(4.6)	24	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	5	0.045	Immature fish	-	-	11	N.D.(1.3)	11	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	0.16	Immature fish	Obscure digesta	Viscera removed	34.6	2.6	32	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	27	0.097	Immature fish,Mature fish	-	-	29.2	2.2	27	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	2	0.024	Mature fish	-	-	13	N.D.(1.6)	13	-
				Vertebrata	Amphibia	Anura	-	-	Frog	72	0.034	Larva(Tadpole)	-	-	186	16	170	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	3	0.0083	Imago	-	-	8.1	N.D.(3.9)	8.1	-
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	2	0.016	Imago	-	-	15	N.D.(3.5)	15	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	22.8	1.8	21	-
	D-5	The main stream of the Mano River	2019/6/4	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.20	Mature fish	Protohermes grandis,Oriental weatherfish	Viscera removed	30.1	2.1	28	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	31	0.27	Immature fish	-	-	17.1	1.1	16	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.076	Imago	-	-	24.1	2.1	22	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Niida River	E-2 b	The main stream of the Niida River	2019/6/3	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	294	24	270	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	<u>Spirogyra</u>	-	0.34	-	-	-	33.6	2.6	31	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<u>Isonychia valida</u>	345	0.025	Larva	-	-	100.7	6.7	94	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<u>Stenopsyche marmorata</u>	136	0.021	Larva	-	-	99.9	7.9	92	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	16	0.0054	Larva(Dragonfly larva)	-	-	128.3	8.3	120	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<u>Stylogomphus suzukii</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u>Sieboldius albardae</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<u>Asiagomphus melaenops</u>									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	11	0.0062	Larva	-	-	27	N.D.(5.1)	27	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	<u>Red swamp crawfish</u>	6	0.091	Juvenile,Imago	-	-	66.9	4.9	62	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	<u>Common prawn</u>	43	0.051	Imago	-	-	31.2	2.2	29	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	<u>Freshwater shrimp</u>	107	0.023	Juvenile,Imago	-	-	52.1	3.1	49	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	<u>Japanese mitten crab</u>	6	0.032	Juvenile	-	-	62.2	5.2	57	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<u>Semisulcospira libertina</u>	30	0.017	Imago	-	Molluscous part	38	N.D.(3.1)	38	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<u>Japanese eel</u>	1	0.038	Immature fish	-	-	31.3	4.3	27	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	<u>Sculpin</u>	4	0.072	Immature fish	-	-	53.5	3.5	50	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	59	0.36	Immature fish	-	-	73.8	4.8	69	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	<u>Pale chub</u>	15	0.011	Immature fish	-	-	38	N.D.(4.8)	38	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	<u>Sarcocheilichthys variegatus variegatus</u>	2	0.017	Immature fish,Mature fish	-	-	41.6	3.6	38	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorfii</u>	1	0.039	Mature fish	-	-	32.5	2.5	30	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<u>Oriental weatherfish</u>	18	0.042	Immature fish,Mature fish	-	-	15	N.D.(1.4)	15	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	25	0.095	Mature fish	-	-	36.6	2.6	34	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>									
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	<u>Amur catfish</u>	3	3.3	Mature fish	Common prawn,Japanese mitten Crab,Fish	Viscera removed	101.3	7.3	94	0.99
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	<u>Japanese brown frog</u>	4	0.019	Imago	-	-	22	N.D.(2.8)	22	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	<u>Wrinkled frog</u>									
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	<u>American bullfrog</u>	6	0.11	Larva(Tadpole)	-	-	430	30	400	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	193	13	180	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific 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	
Ota River	F-1	The main stream of the Ota River	2019/6/6	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0077	-	-	-	318	28	290	-
				Algae/plant	-	-	-	<i>Bryophyta</i>	Bryophyte	-	0.28	-	-	-	258	18	240	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.33	-	-	-	13.0	1.0	12	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida	245	0.019	Larva	-	-	172	12	160	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	74	0.017	Larva	-	-	243	23	220	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	31	0.0096	Larva(Dragonfly larva)	-	-	118.9	8.9	110	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Melligomphus viridicostus</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	64	0.026	Larva	-	-	103.3	9.3	94	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes japonicus</i>	Parachauliodes japonicus									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	44	0.083	Imago	-	-	244	14	230	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	162	0.034	Juvenile	-	-	333	23	310	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	11	0.14	Juvenile	-	-	311	21	290	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.030	Imago	-	Molluscos part	207	17	190	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	0.78	Immature fish,Mature fish	Red swamp crawfish,Ferocious water bug,Freshwater shrimp,Gomphidae,Ecdyonurus,Ephemerellidae	Viscera removed	215	15	200	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	0.063	Immature fish	-	-	396	26	370	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	9	0.011	Immature fish	-	-	233	13	220	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	8	0.026	Immature fish,Mature fish	-	-	172	12	160	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	1	0.031	Mature fish	Obscure digesta	Viscera removed	310	20	290	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.5	Mature fish	Obscure digesta	Viscera removed	473	33	440	4.4
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	3	0.0046	Mature fish	-	-	191	21	170	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	Lefua echigonia	5	0.0055	Immature fish	-	-	92.3	8.3	84	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	13	0.065	Mature fish	-	-	387	27	360	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae									
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	2	0.0050	Ammocoetes(larva)	-	-	19	N.D.(6.5)	19	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	91.6	7.6	84	-
	F-5	The main stream of the Ota River	2019/6/3	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	0.012	Immature fish	-	-	46.4	4.4	42	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	1	0.016	Immature fish	-	-	39.5	2.5	37	-
				Vertebrata	Amphibia	Anura	-	-	Frog	775	0.23	Larva(Tadpole)	-	-	152	12	140	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	14	0.49	Larva(Tadpole)	-	-	194	14	180	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	7	2.7	Imago	-	-	32.7	1.7	31	1.5

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Hayama	G-1 G-2 G-3	In the lake	2019/6/7	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0094	-	-	-	3.1	N.D.(3.6)	3.1	-
			2019/6/11	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	1	2.6	Mature fish	Obscure digesta	Viscera removed	49.2	3.2	46	0.66
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.57	Immature fish,Mature fish	Obscure digesta	Viscera removed	151	11	140	-
	Vertebrata	Osteichthyes		Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	17	0.28	Immature fish	-	-	37.9	2.9	35	-		
	G-4	Inflowing rivers	2019/6/4	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0058	-	-	-	46	N.D.(4.8)	46	-
				Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	Potamanthus formosus	386	0.010	Larva	-	-	83.6	6.6	77	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida									
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	Siphonuridae									
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella ishiyamana</i>	<i>Drunella ishiyamana</i>									
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	Ephemera japonica									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	59	0.016	Larva	-	-	50.6	3.6	47	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	48	0.012	Larva(Dragonfly larva)	-	-	13	N.D.(2.8)	13	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Sinogomphus flavolimbatus									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	Anax parthenope julius									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	39	0.024	Larva	-	-	7.4	N.D.(2.2)	7.4	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	108	0.028	Juvenile	-	-	24	N.D.(2.7)	24	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.87	Mature fish	Fish	Viscera removed	80.7	5.7	75	0.14
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	170	1.2	Immature fish	-	-	23.9	1.9	22	0.24
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.029	Immature fish,Mature fish	-	-	9.6	N.D.(1.6)	9.6	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	73	0.39	Immature fish	-	-	49.5	3.5	46	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	414	1.5	Immature fish	-	-	18.4	1.4	17	0.14
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	24	0.044	Immature fish	-	-	21.8	1.8	20	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	53.8	3.8	50	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Akimoto	H-1 H-2 H-3	In the lake	2019/6/8	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.012	-	-	-	N.D.	N.D.(2.7)	N.D.(2.4)	-
			2019/6/19	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	20	1.3	Imago	-	-	19.5	1.5	18	7.8
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	2.3	Mature fish	Obscure digesta	Viscera removed	63.5	5.5	58	0.72
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	2	1.7	Mature fish	Obscure digesta	Viscera removed	31.9	1.9	30	1.3
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.2	Mature fish	Obscure digesta	Viscera removed	19.4	1.4	18	1.1
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.5	Mature fish	Obscure digesta	Viscera removed	47.0	3.0	44	1.0
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	54	0.17	Mature fish	-	-	2.8	N.D.(0.54)	2.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	5	0.85	Mature fish	Japanese smelt,Common prawn	Viscera removed	25.9	1.9	24	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	3	0.27	Immature fish	Japanese smelt,Ant,Bee	Viscera removed	12.75	0.75	12	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	14	3.1	Immature fish,Mature fish	Common prawn,Signal crayfish,Fish,Ephemera	Viscera removed	55.5	3.5	52	1.1
	H-3	In the lake and Inflowing rivers	2019/6/8	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0052	-	-	-	30	N.D.(5.5)	30	-
			2019/6/9	Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella basalis</i>	<u>Drunella basalis</u>	384	0.031	Larva	-	-	5.4	N.D.(1.7)	5.4	-
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella kohnoi</i>	<u>Drunella kohnoi</u>									
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella trispina</i>	<u>Drunella trispina</u>									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria sp.</i>	<u>Acroneuria</u>	141	0.028	Larva	-	-	1.6	N.D.(1.9)	1.6	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	<u>Calineuria</u>									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	163	0.059	Larva	-	-	3.7	N.D.(2.8)	3.7	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	14	0.0049	Larva	-	-	N.D.	N.D.(6.1)	N.D.(5.0)	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes japonicus</i>	<u>Parachauliodes japonicus</u>									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	440	0.17	Imago	-	-	9.30	0.80	8.5	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	69	0.18	Immature fish	-	-	5.1	N.D.(0.53)	5.1	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.014	Immature fish	-	-	14	N.D.(2.7)	14	-
				Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	11	0.065	Imago	-	-	38.7	2.7	36	-
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	2	0.0088	Imago	-	-	4.9	N.D.(3.7)	4.9	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	29.4	2.4	27	-
	H-4	Within the lake and rivers in the vicinity	2019/6/9	Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>	14	0.011	Larva(Dragonfly larva)	-	-	7.6	N.D.(3.9)	7.6	-
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	<u>Sympetrum</u>									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani									
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.031	Imago	-	Molluscous part	13	N.D.(2.1)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	44	0.12	Immature fish,Mature fish	-	-	3.8	N.D.(0.69)	3.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	Lefua echigonia	16	0.017	Immature fish,Mature fish	-	-	4.2	N.D.(3.1)	4.2	-
				Vertebrata	Amphibia	Anura	-	-	Frog	130	0.072	Larva(Tadpole)	-	-	108.6	8.6	100	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	2	0.024	Imago	-	-	6.2	N.D.(2.4)	6.2	-
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	2	0.012	Imago	-	-	5.6	N.D.(2.7)	5.6	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Inawashiro	I-1 I-2 (north lakeside)	Within the lake and Nagase River	2019/7/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	6	1.9	Mature fish	Obscure digesta	Viscera removed	24.3	2.3	22	0.49
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.6	Mature fish	Obscure digesta	Viscera removed	24.2	1.2	23	0.59
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	1	0.95	Mature fish	Common prawn	Viscera removed	19.8	1.8	18	0.13
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	1.9	Immature fish	Common prawn	Viscera removed	17.94	0.94	17	0.41
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.2	Mature fish	Frog,Fish	Viscera removed	11.63	0.63	11	0.20
			2019/6/8	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	18.5	1.5	17	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2019/6/8	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0087	-	-	-	N.D.	N.D.(3.6)	N.D.(3.2)	-
				Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.32	-	-	-	0.45	N.D.(0.30)	0.45	-
				Algae/plant	Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	-	0.33	-	-	-	0.78	N.D.(0.27)	0.78	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	9	0.013	Larva(Dragonfly larva)	-	-	2.8	N.D.(2.6)	2.8	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	1768	1.3	Imago	-	-	8.02	0.42	7.6	0.67
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	28	0.18	Juvenile,Imago	-	Molluscou	4.1	N.D.(0.47)	4.1	-
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina chinensis laeta</i>	Mud-snail	9	0.018	Juvenile,Imago	-	Molluscou	7.8	N.D.(2.8)	7.8	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.0097	Imago	-	Molluscou	N.D.	N.D.(4.6)	N.D.(3.7)	-
			2019/7/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.037	Immature fish	-	-	11	N.D.(1.4)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	13	0.18	Immature fish	-	-	6.2	N.D.(0.45)	6.2	-
			2019/6/8	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	61	0.013	Immature fish	-	-	5.8	N.D.(4.2)	5.8	-
			2019/7/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	30	2.3	Mature fish	Obscure digesta	Viscera removed	25.6	1.6	24	0.42
			2019/6/8	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	48	0.10	Immature fish,Mature fish	-	-	1.1	N.D.(0.59)	1.1	-
			2019/7/2	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	1.7	Immature fish,Mature fish	Common prawn	Viscera removed	33.1	2.1	31	0.42
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	3	0.076	Immature fish	Shrimp	Viscera removed	7.5	N.D.(0.85)	7.5	-
			2019/6/8	Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	19	0.22	Imago	-	-	2.5	N.D.(0.50)	2.5	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog									
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	11	0.056	Imago	-	-	1.5	N.D.(1.6)	1.5	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific 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	Sea area in front of the Abukuma River Estuary	2019/6/7	Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	2	0.29	Immature fish	Shrimp	Viscera removed	N.D.	N.D.(0.47)	N.D.(0.45)	-
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	1	0.97	Immature fish	Empty stomach	Viscera removed	0.58	N.D.(0.28)	0.58	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	1	1.3	Mature fish	Empty stomach	Viscera removed	0.55	N.D.(0.29)	0.55	0.062
				Vertebrata	Osteichthyes	Perciformes	Sebastidae	<i>Sebastes schlegelii</i>	Black rockfish	1	1.4	Mature fish	Empty stomach	Viscera removed	0.29	N.D.(0.32)	0.29	-
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2019/6/19	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0086	-	-	-	5.2	N.D.(4.9)	5.2	-
				Algae/plant	Chlorophyceae	Ulvaes	Ulvaceae	<i>Ulva pertusa</i>	<i>Ulva pertusa</i>	-	0.25	-	-	-	1.3	N.D.(0.36)	1.3	-
				Annelida	Polychaeta	Eunicida	Lumbrineridae	<i>Lumbrineridae</i>	Lumbrineridae	383	0.35	Juvenile, Imago	-	-	4.4	N.D.(0.37)	4.4	-
				Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Hediste sp.</i>	Hediste									
				Annelida	Polychaeta	Spionida	Cirratulidae	<i>Cirratulida</i>	<u>Polychaeta</u>									
				Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheidae</i>	Alpheidae	25	0.028	Juvenile	-	-	1.5	N.D.(1.5)	1.5	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon macrodactylus</i>	Palaemon macrodactylus	94	0.045	Juvenile, Imago	-	-	N.D.	N.D.(0.89)	N.D.(0.92)	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	158	0.18	Juvenile	-	-	2.0	N.D.(0.66)	2.0	-
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	129	0.16	Juvenile, Imago	-	Molluscous part	1.1	N.D.(0.49)	1.1	-
				Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Pholis crassispina	24	0.046	Immature fish, Mature fish	-	-	1.0	N.D.(1.2)	1.0	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger trigonocephalus</i>	Chameleon goby	94	0.16	Immature fish	-	-	0.94	N.D.(0.40)	0.94	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acentrogobius virgatus</i>	Acentrogobius virgatus									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gobiidae</i>	<u>Gobiidae</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Favonigobius gymnauchen</i>	Favonigobius gymnauchen									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Luciogobius guttatus</i>	Flatheaded goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Luciogobius guttatus</i>	Flatheaded goby	653	0.85	Immature fish	-	-	1.2	N.D.(0.93)	1.2	N.D.(0.020)
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	2	0.21	Mature fish	Ragworm	Viscera removed	1.0	N.D.(0.65)	1.0	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Takifugu niphobles	2	0.21	Mature fish	Ragworm	Viscera removed	1.0	N.D.(0.65)	1.0	-
Off Iwaki City	M-4	Hisanohama Coastal areas	2019/7/4	Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	40	1.5	Immature fish	-	-	1.0	N.D.(0.41)	1.0	N.D.(0.014)
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu poecilonotus</i>	Pufferfish	9	0.073	Immature fish	-	-	0.88	N.D.(0.97)	0.88	-

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