

○ Results (water)

Locations			2021 June - July 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	2.8	7.2	8.3	18.3	0.09	2.8	37	17.6	N.D.(0.0016)	0.048	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.3	2.8	7.7	8.6	18.7	0.09	2.8	44	19.8	0.0022	0.066	-
	A-2	37.5673°	140.3946°	7.4	1.5	5.7	9.6	12.1	0.06	2.0	13	6.7	N.D.(0.0015)	0.029	-
	B-2	37.8121°	140.5058°	7.4	2.0	5.6	9.1	16.4	0.08	2.2	25	10.7	0.0041	0.11	-
	B-3	37.8182°	140.4679°	8.0	1.1	3.3	10.5	10.0	0.05	1.3	5	2.2	N.D.(0.0012)	0.0038	-
Uda River	C-6	37.7764°	140.8877°	7.7	<0.5	2.5	9.4	11.7	0.06	1.0	4	2.7	N.D.(0.0014)	0.0054	0.00062
Mano River	D-4 a	37.7308°	140.9081°	7.3	0.5	2.3	9.7	12.3	0.07	0.9	2	2.3	N.D.(0.0015)	0.0066	0.00067
Niida River	E-2 a	37.6640°	140.9447°	7.4	1.0	5.1	8.8	7.8	0.05	1.5	46	42.5	0.0077	0.20	0.0017
Ota River	F-1	37.5975°	140.9252°	7.4	0.6	2.7	9.9	5.9	0.04	1.0	7	2.4	0.0020	0.051	0.0031
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	7.5	1.1	4.1	9.2	7.6	0.05	1.7	6	5.2	N.D.(0.0014)	0.017	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.6	1.3	4.0	8.7	8.0	0.05	1.8	7	5.9	N.D.(0.0014)	0.022	0.00073
	G-2(Surface layer)	37.7267°	140.8223°	7.8	0.8	3.6	9.2	8.1	0.04	1.6	3	2.6	N.D.(0.0013)	0.0099	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.2	0.6	3.2	7.7	7.9	0.04	1.5	2	2.0	N.D.(0.0014)	0.011	-
	G-4	37.7382°	140.8035°	7.8	0.9	2.9	8.9	9.5	0.05	1.2	6	2.9	N.D.(0.0012)	0.0056	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.3	0.5	3.1	10.0	4.1	0.03	1.5	2	1.2	N.D.(0.0014)	0.0041	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.9	<0.5	4.1	9.4	4.0	0.03	2.2	2	1.5	N.D.(0.0015)	0.010	0.00096
	H-2(Surface layer)	37.6616°	140.1226°	7.2	0.7	3.4	9.5	4.2	0.03	1.7	2	1.7	N.D.(0.0013)	0.0070	-
	H-2(Bottom layer)	37.6616°	140.1226°	6.7	0.5	3.3	8.0	4.8	0.03	1.5	4	2.8	N.D.(0.0013)	0.013	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.9	<0.5	1.8	10.3	12.1	0.06	0.6	<1	0.7	N.D.(0.0014)	0.0048	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.8	<0.5	1.8	10.5	12.2	0.06	0.8	<1	0.8	N.D.(0.0014)	0.0051	0.00080
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°	8.2	1.7	3.1	8.1	4270	23.24	1.8	4	2.4	N.D.(0.0016)	0.0033	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.9	0.7	1.7	6.5	4910	33.64	1.4	6	3.6	N.D.(0.0014)	0.0044	0.00094
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	1.2	3.0	7.9	4810	32.74	1.8	15	5.5	N.D.(0.0013)	0.010	0.00091
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.0	2.2	1.6	8.1	4740	32.98	1.1	2	0.4	N.D.(0.0014)	0.0029	-
	M-2(Bottom layer)	37.1996°	141.0853°	7.9	1.8	1.0	7.4	4970	33.89	1.0	2	0.5	N.D.(0.0012)	0.0034	0.00091

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

○ Results (sediments)

Locations			2021 June - July Survey																	
Location	Latitude	Longitude	pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	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°	7.3	41	42.1	8.2	20.8	2.590	0.0	0.2	1.6	23.9	52.0	22.3	0.029	2.0	19	490	0.33
	A-2	37.5673°	140.3946°	6.8	310	20.5	1.5	1.5	2.735	10.5	35.4	42.6	5.4	1.2	4.9	0.78	19	4.2	100	-
	B-2	37.8121°	140.5058°	7.3	196	26.4	1.9	2.3	2.683	0.0	0.8	44.5	43.0	5.2	6.5	0.23	2.0	2.9	100	-
	B-3	37.8182°	140.4679°	7.4	346	15.7	1.1	1.2	2.634	32.1	32.9	23.0	6.7	2.0	3.3	1.3	9.5	2.1	37	-
Uda River	C-6	37.7764°	140.8877°	7.6	341	17.0	1.0	0.9	2.687	26.6	42.9	23.5	1.6	0.8	4.6	1.2	9.5	1.7	48	0.26
Mano River	D-4 a	37.7308°	140.9081°	7.6	300	17.2	1.8	1.8	2.694	27.3	39.0	23.8	2.1	2.8	4.9	1.2	9.5	5.5	120	0.48
Niida River	E-2 a	37.6640°	140.9447°	7.4	330	40.4	7.5	22.4	2.591	4.6	6.3	11.8	16.6	45.1	15.6	0.050	9.5	97	2200	0.84
Ota River	F-1	37.5975°	140.9252°	7.2	256	23.0	2.6	2.5	2.638	11.2	16.9	35.2	15.1	15.3	6.3	0.40	9.5	23	530	1.1
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	7.4	180	49.3	12.8	42.0	2.574	0.0	0.0	0.3	2.4	70.2	27.1	0.015	0.85	99	2300	2.5
	G-2	37.7267°	140.8223°	7.2	129	43.3	10.0	55.5	2.535	12.7	1.9	1.7	7.6	48.4	27.7	0.018	19	77	2000	-
	G-4	37.7382°	140.8035°	7.7	293	27.1	2.6	1.7	2.695	4.1	11.2	60.1	12.7	6.0	5.9	0.42	19	19	420	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.8	96	51.7	9.7	31.1	2.487	0.0	0.0	0.1	0.4	52.9	46.6	0.0060	0.85	79	1900	1.3
	H-2	37.6616°	140.1226°	6.8	116	63.1	12.9	43.9	2.404	0.3	0.2	0.3	0.5	30.1	68.6	-	9.5	67	1900	-
Lake Inawashiro	J-1	37.4203°	140.1008°	7.0	275	18.8	1.2	2.4	2.730	4.9	18.8	55.0	14.2	3.9	3.2	0.55	9.5	2.3	42	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°	7.8	283	30.6	3.3	4.7	2.693	0.0	0.1	0.4	48.8	40.0	10.7	0.074	2.0	3.6	98	N.D.(0.12)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	228	22.1	1.7	2.1	2.711	0.5	2.1	55.2	33.3	4.0	4.9	0.28	9.5	1.7	50	N.D.(0.13)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	271	24.3	2.0	1.6	2.748	2.1	0.7	1.7	86.2	4.6	4.7	0.15	9.5	0.85	27	N.D.(0.12)

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

○ 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	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0075	-	-	-	110	N.D.(12)	110	-		
			Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	11	0.0084	Larva(Dragonfly larva)	-	-	-	3.4	N.D.(3.8)	3.4	-	
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<u>Asiagomphus melaenops</u>											
			Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	<u>Sympetrum</u>											
			Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<u>Boyeria maclachlani</u>											
			Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	18	0.0097	Larva	-	-	-	3.7	N.D.(3.1)	3.7	-	
			Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	<u>Red swamp crawfish</u>	2	0.026	Imago	-	-	-	7.5	N.D.(1.3)	7.5	-	
			Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	<u>Neocaridina</u>	153	0.032	Juvenile,Imago	-	-	-	4.8	N.D.(1.3)	4.8	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	15	0.17	Immature fish	-	-	-	3.0	N.D.(1.1)	3.0	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	<u>Pale chub</u>	41	0.57	Immature fish,Mature fish	-	-	-	3.5	N.D.(0.76)	3.5	-	
			2021/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorffii</u>	4	2.9	Mature fish	Obscure digesta	Viscera removed	2.9	N.D.(0.76)	2.9	0.32	
			2021/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	<u>Common carp</u>	2	0.54	Immature fish	Obscure digesta	Viscera removed	1.8	N.D.(0.63)	1.8	-	
			2021/6/13	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<u>Gnathopogon elongatus elongatus</u>	25	0.072	Immature fish	-	-	1.5	N.D.(0.68)	1.5	-	
			2021/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbuis</i>	<u>Hemibarbus barbuis</u>	3	1.6	Mature fish	Obscure digesta	Viscera removed	1.6	N.D.(0.76)	1.6	0.28	
	2021/6/13	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<u>Oriental weatherfish</u>	6	0.034	Immature fish,Mature fish	-	-	1.2	N.D.(0.83)	1.2	-			
		Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	<u>Stone loach</u>	256	1.0	Immature fish	-	-	1.7	N.D.(0.65)	1.7	0.079			
	2021/6/14	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	<u>Small mouth bass</u>	2	1.2	Mature fish	Fish	Viscera removed	5.4	N.D.(1.1)	5.4	0.24			
		Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	<u>Channel catfish</u>	11	4.0	Immature fish	Midge,Bryophyte,Red swamp crawfish,Waterweed,Plant piece,Terrestrial insect	Viscera removed	4.0	N.D.(0.73)	4.0	0.16			
	2021/6/13	Vertebrata	Amphibia	Anura	-	-	<u>Frog</u>	29	0.011	Larva(Tadpole)	-	-	47	N.D.(2.9)	47	-			
		Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	<u>Japanese brown frog</u>	4	0.054	Imago	-	-	11	N.D.(1.2)	11	-			
		Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	<u>American bullfrog</u>												
	Coarse Particulate Organic Matter	-	-	-	-	-	<u>Bottom fallen leaves</u>	-	0.22	-	-	-	18	N.D.(0.81)	18	-			
	A-2	Harase River	2021/6/13	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0097	-	-	-	93.2	6.2	87	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	132	0.080	Larva(Dragonfly larva)	-	-	-	17.76	0.76	17	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Melligomphus viridicostus</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u>Sieboldius albardae</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	<u>Anisogomphus maacki</u>										
Arthropoda				Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<u>Asiagomphus melaenops</u>											
Arthropoda				Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	<u>Sympetrum</u>											
Arthropoda				Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	25	0.012	Larva	-	-	-	N.D.	N.D.(3.7)	N.D.(2.8)	-	
Arthropoda				Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	<u>Red swamp crawfish</u>	3	0.034	Juvenile,Imago	-	-	-	7.3	N.D.(1.5)	7.3	-	
Arthropoda				Malacostraca	Decapoda	Potamidae	<i>Geothelphusa dehaani</i>	<u>Japanese freshwater crab</u>	13	0.013	Juvenile	-	-	-	6.1	N.D.(2.3)	6.1	-	
Arthropoda				Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	<u>Neocaridina</u>	197	0.069	Juvenile	-	-	-	5.7	N.D.(0.87)	5.7	-	
Mollusca				Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<u>Semisulcospira libertina</u>	30	0.026	Juvenile,Imago	-	Molluscos part	7.4	N.D.(1.5)	7.4	-		
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	<u>Amur minnow</u>	74	0.27	Immature fish,Mature fish	-	-	-	5.2	N.D.(0.76)	5.2	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	2	0.018	Immature fish	-	-	-	12	N.D.(2.1)	12	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	<u>Pale chub</u>	2	0.025	Immature fish	-	-	-	8.5	N.D.(1.9)	8.5	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<u>Pseudogobio esocinus esocinus</u>	3	0.028	Immature fish	-	-	-	4.3	N.D.(1.7)	4.3	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	<u>Dark chub</u>	15	0.12	Immature fish	-	-	-	5.6	N.D.(0.83)	5.6	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<u>Oriental weatherfish</u>	16	0.034	Immature fish	-	-	-	5.3	N.D.(1.1)	5.3	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	<u>Stone loach</u>	115	1.1	Immature fish	-	-	-	3.1	N.D.(0.75)	3.1	0.17	
Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	<u>Yamame trout</u>	11	0.13	Immature fish	-	-	-	5.8	N.D.(0.89)	5.8	-	
Vertebrata				Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	<u>Far eastern brook lamprey</u>	4	0.026	Ammocoetes(larva)	-	-	-	8.6	N.D.(1.9)	8.6	-	
Vertebrata	Amphibia	Anura	-	-	-	<u>Frog</u>	384	0.23	Larva(Tadpole)	-	-	-	50.9	1.9	49	-			
Coarse Particulate Organic Matter	-	-	-	-	-	<u>Bottom fallen leaves</u>	-	0.25	-	-	-	25.3	1.3	24	-				

\*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	2021/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	1.2	Mature fish	Obscure digesta	Viscera removed	4.0	N.D.(0.69)	4.0	0.25	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	8.8	Mature fish	Obscure digesta	Viscera removed	6.3	N.D.(0.66)	6.3	0.31	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.8	Mature fish	Obscure digesta	Viscera removed	3.2	N.D.(0.69)	3.2	0.52	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.32	Immature fish	Gnathopogon elongatus, Rhinogobius	Viscera removed	5.2	N.D.(0.75)	5.2	-	
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	2.4	Immature fish, Mature fish	Lepidostoma japonicum, Stenopsyche marmorata, Roe	Viscera removed	24.2	1.2	23	0.25	
	B-3	Surikami River	2021/6/13	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	33	N.D.(2.3)	33	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	220	0.091	Larva	-	-	-	2.6	N.D.(1.1)	2.6	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	40	0.014	Larva (Dragonfly larva)	-	-	-	7.3	N.D.(3.2)	7.3	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>	59	0.024	Larva	-	-	-	3.9	N.D.(1.4)	3.9	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	8	0.10	Juvenile, Imago	-	-	-	5.4	N.D.(0.98)	5.4	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	30	0.017	Juvenile, Imago	-	Molluscos part	-	5.0	N.D.(2.6)	5.0	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	12	0.10	Immature fish	-	-	-	2.1	N.D.(0.96)	2.1	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	54	0.25	Immature fish, Mature fish	-	-	-	3.6	N.D.(0.89)	3.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	30	0.14	Immature fish	-	-	-	3.0	N.D.(0.79)	3.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	16	0.037	Immature fish	-	-	-	2.2	N.D.(1.4)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	2	4.4	Mature fish	Obscure digesta	Viscera removed	5.6	N.D.(0.78)	5.6	0.50	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	39	0.14	Immature fish, Mature fish	-	-	-	2.6	N.D.(0.87)	2.6	-
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	250	0.93	Immature fish	-	-	-	2.0	N.D.(0.90)	2.0	0.27				
Vertebrata	Amphibia	Anura	-	-	Frog	20	0.020	Larva (Tadpole)	-	-	-	27.1	2.1	25	-				
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	8	0.032	Imago	-	-	-	2.4	N.D.(0.89)	2.4	-				
Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	-	7.2	N.D.(1.4)	7.2	-				

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\*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			
Uda River	C-6	The main stream of the Uda River	2021/6/18	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0062	-	-	-	23	N.D.(6.9)	23	-		
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae sp.</i>	Siphonuridae	389	0.020	Larva	-	-	-	3.3	N.D.(2.3)	3.3	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina suzukii</i>	<i>Paragnetina suzukii</i> Okamoto	97	0.025	Larva	-	-	-	2.1	N.D.(1.6)	2.1	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla sp.</i>	Neoperla	47	0.012	Larva(Dragonfly larva)	-	-	-	N.D.	N.D.(3.0)	N.D.(3.2)	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
				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	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	15	0.0068	Larva	-	-	-	N.D.	N.D.(5.1)	N.D.(4.3)	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	5	0.053	Juvenile,Imago	-	-	-	2.5	N.D.(1.1)	2.5	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	16	0.026	Imago	-	-	-	2.6	N.D.(1.4)	2.6	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	91	0.045	Juvenile,Imago	-	-	-	3.8	N.D.(1.3)	3.8	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	17	0.12	Juvenile	-	-	-	4.0	N.D.(1.1)	4.0	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	5	0.63	Immature fish,Mature fish	Empty stomach	Viscera removed	-	18	N.D.(1.2)	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	2	0.0058	Immature fish	-	-	-	N.D.	N.D.(6.4)	N.D.(5.2)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	25	0.30	Immature fish	-	-	-	2.8	N.D.(0.93)	2.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	42	0.26	Immature fish	-	-	-	3.8	N.D.(0.73)	3.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	5	0.032	Immature fish	-	-	-	2.7	N.D.(1.4)	2.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	39	0.26	Immature fish,Mature fish	-	-	-	2.9	N.D.(0.73)	2.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	1	0.0040	Immature fish	-	-	-	N.D.	N.D.(6.7)	N.D.(5.3)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.013	Immature fish	-	-	-	N.D.	N.D.(3.3)	N.D.(2.9)	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	246	2.5	Immature fish,Mature fish	-	-	-	9.5	N.D.(0.88)	9.5	0.12
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.020	Immature fish	-	-	-	4.8	N.D.(1.9)	4.8	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	6	0.037	Immature fish	-	-	-	4.7	N.D.(1.2)	4.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	13	0.057	Immature fish,Mature fish	-	-	-	5.2	N.D.(1.7)	5.2	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.013	Mature fish	-	-	-	2.6	N.D.(2.5)	2.6	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.0048	Immature fish	-	-	-	N.D.	N.D.(5.1)	N.D.(4.7)	-
Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	1	0.0047	Ammocoetes(larva)	-	-	-	N.D.	N.D.(4.9)	N.D.(4.8)	-				
Vertebrata	Amphibia	Anura	-	-	Frog	11	0.0050	Larva(Tadpole)	-	-	-	13	N.D.(5.0)	13	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.17	-	-	-	6.2	N.D.(0.86)	6.2	-		

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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			
Mano River	D-4 b	The main stream of the Mano River	2021/6/14	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0049	-	-	-	53	N.D.(7.2)	53	-		
				Algae/plant	Zygnematomyxaceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	<i>Spirogyra</i>	-	0.32	-	-	-	15	N.D.(1.3)	15	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	87	0.015	Larva	-	-	-	10	N.D.(2.5)	10	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	21	0.019	Larva(Dragonfly larva)	-	-	-	4.4	N.D.(2.0)	4.4	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei milnei</i>	<i>Planaeschna milnei milnei</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes sp.</i>	<i>Parachauliodes</i>	32	0.017	Larva	-	-	-	4.1	N.D.(1.8)	4.1	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	25	0.035	Imago	-	-	-	3.9	N.D.(1.4)	3.9	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratyta improvisa</i>	Freshwater shrimp										
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab										
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	8	1.6	Immature fish,Mature fish	Rhinogobius,Japanese mitten Crab	Viscera removed	24.4	1.4	23	0.056	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	18	0.45	Immature fish	-	-	8.1	N.D.(0.99)	8.1	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	6	0.018	Immature fish	-	-	7.8	N.D.(2.2)	7.8	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	115	0.99	Immature fish	-	-	5.8	N.D.(1.2)	5.8	0.14	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	181	0.90	Immature fish	-	-	7.0	N.D.(1.7)	7.0	0.20	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	57	0.67	Immature fish,Mature fish	-	-	4.5	N.D.(0.85)	4.5	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	7	0.044	Immature fish,Mature fish	-	-	10	N.D.(1.4)	10	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	14	0.026	Immature fish,Mature fish	-	-	4.8	N.D.(1.3)	4.8	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	4	0.014	Immature fish	-	-	4.8	N.D.(2.8)	4.8	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	1	0.0061	Immature fish	-	-	9.0	N.D.(7.2)	9.0	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	0.24	Immature fish	Rhinogobius	Viscera removed	9.7	N.D.(1.1)	9.7	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	3	0.044	Immature fish	-	-	10	N.D.(1.5)	10	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	102	0.40	Mature fish	-	-	12	N.D.(1.2)	12	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	<i>Rhinogobius</i>										
Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	3	0.028	Immature fish	-	-	6.0	N.D.(1.5)	6.0	-					
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	5	0.53	Immature fish	Common prawn,Japanese fluvial sculpin	Viscera removed	11	N.D.(1.2)	11	-					
Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	6	0.011	Ammocoetes(larva)	-	-	2.6	N.D.(2.9)	2.6	-					
Vertebrata	Amphibia	Anura	-	-	<u>Frog</u>	13	0.020	Larva(Tadpole)	-	-	28	N.D.(4.8)	28	-					
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog														
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog														
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.064	Imago	-	-	5.0	N.D.(1.4)	5.0	-					
Coarse Particulate Organic Matter	-	-	-	-	-	-	0.26	-	-	-	-	11	N.D.(1.5)	11	-				

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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			
Niida River	E-2 b	The main stream of the Niida River	2021/6/15	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0037	-	-	-	120	N.D.(16)	120	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	101	0.011	Larva	-	-	-	239.3	9.3	230	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	31	0.011	Larva(Dragonfly larva)	-	-	-	24	N.D.(6.0)	24	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>	85	0.053	Larva	-	-	-	12	N.D.(4.2)	12	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	11	0.18	Imago	-	-	-	17	N.D.(1.4)	17	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	25	0.029	Juvenile,Imago	-	-	-	12	N.D.(4.7)	12	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	105	0.030	Juvenile,Imago	-	-	-	110	N.D.(4.3)	110	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	28	0.27	Juvenile	-	-	-	27	N.D.(1.3)	27	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.29	Mature fish	Red swamp crawfish	Viscera removed	-	37.7	1.7	36	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	11	0.26	Immature fish	-	-	-	14	N.D.(1.3)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	60	0.46	Immature fish	-	-	-	13	N.D.(1.2)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	119	0.29	Immature fish	-	-	-	15	N.D.(1.3)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	10	0.063	Immature fish	-	-	-	8.5	N.D.(2.5)	8.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	<i>Sarcocheilichthys variegatus variegatus</i>	2	0.023	Immature fish,Mature fish	-	-	-	11	N.D.(1.8)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	52	0.12	Immature fish	-	-	-	15	N.D.(2.0)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.13	Immature fish	Obscure digesta	Viscera removed	-	9.7	N.D.(2.1)	9.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	32	0.088	Immature fish	-	-	-	14	N.D.(2.5)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.8	Mature fish	Obscure digesta	Viscera removed	-	29.2	1.2	28	1.2
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	5	0.0083	Immature fish,Mature fish	-	-	-	10	N.D.(4.5)	10	-			
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	1	0.023	Mature fish	-	-	-	17	N.D.(5.3)	17	-			
	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	3	0.029	Immature fish	-	-	-	23	N.D.(3.5)	23	-			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	16	0.057	Mature fish	-	-	-	23	N.D.(4.0)	23	-			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>													
	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	2.9	Immature fish,Mature fish	Fish	Viscera removed	-	85.8	3.8	82	1.0			
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	82.8	3.8	79	-	
	E-3	The main stream of the Niida River	2021/6/15	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.019	Juvenile	-	-	-	18	N.D.(4.0)	18	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	0.018	Immature fish	Obscure digesta	Viscera removed	-	6.9	N.D.(1.8)	6.9	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	10	0.0064	Immature fish	-	-	-	N.D.	N.D.(7.3)	N.D.(4.5)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	95	0.12	Immature fish	-	-	-	17	N.D.(1.8)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	14	0.032	Immature fish	-	-	-	5.5	N.D.(1.3)	5.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	2	0.035	Immature fish	-	-	-	17	N.D.(4.3)	17	-
Vertebrata				Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	135	0.89	Immature fish	-	-	-	24	N.D.(5.3)	24	0.14	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	9	0.014	Immature fish	-	-	-	11	N.D.(3.5)	11	-	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	25	0.013	Immature fish	-	-	-	3.4	N.D.(3.1)	3.4	-	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>											
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	8	0.052	Immature fish,Mature fish	-	-	-	12	N.D.(2.7)	12	-	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	1	0.023	Mature fish	-	-	-	7.7	N.D.(1.9)	7.7	-	
Vertebrata				Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	7	0.010	Immature fish	-	-	-	57	N.D.(9.1)	57	-	

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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	2021/6/15	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	558	18	540	-		
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida	84	0.0073	Larva	-	-	-	77	N.D.(4.5)	77	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	27	0.0076	Larva(Dragonfly larva)	-	-	-	28	N.D.(5.9)	28	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
				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>	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>Parachauliodes sp.</i>	Parachauliodes	39	0.015	Larva	-	-	-	15	N.D.(5.3)	15	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis										
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	59	0.15	Imago	-	-	-	62.1	2.1	60	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	343	0.10	Juvenile,Imago	-	-	-	54	N.D.(3.2)	54	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	4	0.050	Juvenile	-	-	-	66	N.D.(6.0)	66	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	0.69	Immature fish,Mature fish	Fish,Aquatic insect,Freshwater shrimp	Viscera removed	404	14	390	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	26	0.17	Immature fish,Mature fish	-	-	-	135.3	5.3	130	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	7	0.029	Immature fish,Mature fish	-	-	-	66	N.D.(3.0)	66	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	0.030	Immature fish	-	-	-	56	N.D.(8.5)	56	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	10	0.030	Immature fish,Mature fish	-	-	-	46	N.D.(5.6)	46	-
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	3	0.053	Immature fish	-	-	-	74	N.D.(4.0)	74	-			
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	11	0.046	Mature fish	-	-	-	168.0	8.0	160	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.019	Mature fish	-	-	-	130	N.D.(6.7)	130	-				
Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	63.5	2.5	61	-				
F-5	The main stream of the Ota River	2021/6/15	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	7	1.2	Immature fish,Mature fish	Terrestrial insect,Crab,Protohermes grandis,Caddis-fly	Viscera removed	95.7	3.7	92	0.48		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	1.5	Mature fish	Obscure digesta	Viscera removed	42.6	2.6	40	0.92		
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	44	0.47	Immature fish	-	-	-	44.1	2.1	42	-	
			Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.022	Larva(Tadpole)	-	-	-	140	N.D.(5.0)	140	-	

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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	2021/6/16	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.015	-	-	-	N.D.	N.D.(2.3)	N.D.(2.0)	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.043	Immature fish	-	-	-	22	N.D.(4.4)	22	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.3	Immature fish,Mature fish	Obscure digesta	Viscera removed	-	93.7	3.7	90	0.41
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	6	0.015	Immature fish	-	-	-	11	N.D.(4.9)	11	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	0.11	Immature fish	Rhinogobius	Viscera removed	-	15	N.D.(2.4)	15	-
	G-4	Inflowing rivers	2021/6/16	Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.40	Imago	-	-	-	26	N.D.(2.2)	26	-
				Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0093	-	-	-	-	193	13	180	-
				Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	Potamanthus formosus	182	0.015	Larva	-	-	-	37	N.D.(8.0)	37	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida										
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	<u>Ephemera japonica</u>										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina suzukii</i>	Paragnetina suzukii Okamoto	73	0.0034	Larva	-	-	-	N.D.	N.D.(7.9)	N.D.(6.4)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla sp.</i>	<u>Neoperla</u>										
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	36	0.0098	Larva	-	-	-	38	N.D.(5.2)	38	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	69	0.0089	Larva(Dragonfly larva)	-	-	-	7.3	N.D.(5.3)	7.3	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis										
				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>	<u>Davidius</u>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	17	0.016	Larva	-	-	-	3.9	N.D.(2.3)	3.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	7	0.012	Immature fish	-	-	-	12	N.D.(3.5)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	46	0.27	Immature fish,Mature fish	-	-	-	14	N.D.(2.1)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.015	Immature fish,Mature fish	-	-	-	9.0	N.D.(2.8)	9.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	10	0.066	Immature fish	-	-	-	22	N.D.(4.3)	22	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	5	0.020	Immature fish,Mature fish	-	-	-	20	N.D.(4.7)	20	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	52	0.025	Immature fish	-	-	-	5.3	N.D.(3.0)	5.3	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	4	0.15	Immature fish,Mature fish	Ephemera,Plecoptera	Viscera removed	-	7.9	N.D.(2.6)	7.9	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	1	0.0035	Ammocoetes(larva)	-	-	-	8.4	N.D.(7.6)	8.4	-
				Vertebrata	Amphibia	Anura	-	-	-	110	0.057	Larva(Tadpole)	-	-	-	262	12	250	-
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	11	0.070	Imago	-	-	-	26	N.D.(3.0)	26	-				
Coarse Particulate Organic Matter	-	-	-	-	-	-	0.20	-	-	-	-	-	74.6	2.6	72	-			

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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	2021/6/11	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.014	-	-	-	N.D.	N.D.(2.2)	N.D.(1.9)	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	1.8	Mature fish	-	-	-	34	N.D.(1.5)	34	0.56
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	3	2.6	Mature fish	Obscure digesta	Viscera removed	-	16	N.D.(1.3)	16	0.86
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	4	1.1	Immature fish,Mature fish	Obscure digesta	Viscera removed	-	18	N.D.(1.3)	18	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	39	0.19	Mature fish	-	-	-	9.8	N.D.(1.4)	9.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	4	0.91	Mature fish	-	-	-	32	N.D.(1.2)	32	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	7	0.59	Immature fish	Japanese smelt, Terrestrial insect, Ephemera orientalis, Ant	Viscera removed	-	18	N.D.(1.7)	18	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.20	Immature fish, Mature fish	Japanese smelt, Bee, Terrestrial insect, Ant	Viscera removed	-	18	N.D.(2.3)	18	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.048	Immature fish	Empty stomach	Viscera removed	-	15	N.D.(1.9)	15	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	2.2	Immature fish, Mature fish	Ephemera, Gomphidae, Japanese smelt, Terrestrial insect	Viscera removed	-	43	N.D.(1.6)	43	1.1
	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.1	Mature fish	Empty stomach	Viscera removed	-	30	N.D.(1.5)	30	0.78			
	Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western waterweed	-	0.24	-	-	-	-	41.9	1.9	40	-			
	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	-	4.0	N.D.(3.6)	4.0	-			
	Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria sp.</i>	<u>Acroneuria</u>	84	0.014	Larva	-	-	-	N.D.	N.D.(2.5)	N.D.(2.0)	-			
	Arthropoda	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	<u>Calineuria</u>													
	Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	110	0.044	Larva	-	-	-	1.3	N.D.(0.95)	1.3	-			
	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	64	0.027	Juvenile, Imago	-	-	-	5.2	N.D.(2.1)	5.2	-			
	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	21	0.14	Immature fish	Trichoptera, Terrestrial insect, Ephemeroptera	Viscera removed	-	5.0	N.D.(0.60)	5.0	-			
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	1	1.5	Mature fish	Obscure digesta	Viscera removed	-	14	N.D.(1.3)	14	1.1			
	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	59	0.11	Immature fish, Mature fish	-	-	-	6.5	N.D.(1.4)	6.5	-			
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	6	0.29	Immature fish, Mature fish	Japanese smelt, Lepidostoma, Lepidoptera	Viscera removed	-	13	N.D.(1.1)	13	-			
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	15	0.031	Immature fish	Chironomus, Terrestrial insect	Viscera removed	-	3.2	N.D.(1.6)	3.2	-			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	5	0.20	Immature fish	Rhinogobius, Common prawn	Viscera removed	-	15	N.D.(1.4)	15	-			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	4	0.092	Immature fish	Terrestrial insect, Anisocentropus immunis	Viscera removed	-	8.3	N.D.(2.0)	8.3	-			
	Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	3	0.023	Imago	-	-	-	21	N.D.(1.3)	21	-			
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	-	10	N.D.(1.4)	10	-			
	H-4	Within the lake and rivers in the vicinity	2021/6/11	Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera sp.</i>	Ephemera	153	0.0092	Larva	-	-	20	N.D.(2.6)	20	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>	38	0.024	Larva (Dragonfly larva)	-	-	49	N.D.(2.1)	49	-	
Mollusca				Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.022	Juvenile, Imago	-	Molluscos part	-	3.4	N.D.(1.9)	3.4	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	6	0.041	Immature fish, Mature fish	-	-	-	3.9	N.D.(1.2)	3.9	-	
Vertebrata				Amphibia	Anura	-	-	Frog	252	0.21	Larva (Tadpole)	-	-	-	84.5	3.5	81	-	
Vertebrata				Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	<u>Wrinkled frog</u>	4	0.049	Imago	-	-	-	3.6	N.D.(1.1)	3.6	-	
Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog														

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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	2021/6/12	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	4	0.16	Imago	-	-	2.4	N.D.(0.94)	2.4	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.031	Immature fish	-	-	7.4	N.D.(0.93)	7.4	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	20	3.5	Mature fish	Obscure digesta	Viscera removed	17.93	0.93	17	0.20	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	7	0.068	Immature fish, Mature fish	-	-	8.7	N.D.(1.2)	8.7	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	6	1.9	Mature fish	Obscure digesta	Viscera removed	21	N.D.(0.84)	21	0.47	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	4	4.4	Mature fish	Obscure digesta	Viscera removed	6.8	N.D.(0.74)	6.8	0.43	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	13	0.11	Immature fish	-	-	6.6	N.D.(0.63)	6.6	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	8	1.5	Immature fish, Mature fish	Obscure digesta	Viscera removed	17	N.D.(0.87)	17	0.35	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	3.4	Mature fish	Obscure digesta	Viscera removed	12	N.D.(0.73)	12	0.40	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	3	0.0043	Immature fish, Mature fish	-	-	6.2	N.D.(5.4)	6.2	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	0.83	Mature fish	Obscure digesta	Viscera removed	25.4	1.4	24	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	0.12	Immature fish	Empty stomach	Viscera removed	18.69	0.69	18	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.54	Immature fish	Obscure digesta	Viscera removed	19	N.D.(0.92)	19	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	6	0.050	Immature fish	-	-	10	N.D.(0.88)	10	-	
	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	3.3	Mature fish	Common prawn	Viscera removed	19	N.D.(0.78)	19	0.19				
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	5.5	N.D.(0.72)	5.5	-	
					Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.011	-	-	N.D.	N.D.(2.9)	N.D.(2.3)	-	
					Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.31	-	-	0.71	N.D.(0.81)	0.71	-	
					Algae/plant	Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	-	0.31	-	-	0.44	N.D.(0.27)	0.44	-	
		J-1 (south lakeside)	Within the lake and around the Oninuma	2021/6/12	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	1457	1.2	Imago	-	-	7.5	N.D.(0.89)	7.5	0.60
	Mollusca				Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	28	0.059	Juvenile	-	Molluscos part	1.2	N.D.(1.0)	1.2	-	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	2	0.032	Immature fish	-	-	5.0	N.D.(1.5)	5.0	-	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	4	1.8	Mature fish	Obscure digesta	Viscera removed	21	N.D.(0.74)	21	0.50	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	5	4.7	Mature fish	Obscure digesta	Viscera removed	25	N.D.(0.82)	25	0.35	
	Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	13	0.027	Immature fish, Mature fish	-	-	2.1	N.D.(1.7)	2.1	-	
	Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.98	Mature fish	Empty stomach	Viscera removed	32	N.D.(1.1)	32	0.075	
Vertebrata	Osteichthyes				Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	4.6	Mature fish	Fish	Viscera removed	53.2	2.2	51	0.31		
Vertebrata	Osteichthyes				Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	6	0.022	Immature fish	-	-	16	N.D.(1.9)	16	-		
Vertebrata	Osteichthyes				Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.4	Mature fish	Common prawn	Viscera removed	22	N.D.(0.85)	22	0.14		
Vertebrata	Amphibia				Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	5	0.052	Imago	-	-	2.2	N.D.(0.94)	2.2	-		
Vertebrata	Amphibia				Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog				-	-	-	-	-	-	-	
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	13	0.065	Imago	-	-	N.D.	N.D.(0.67)	N.D.(0.73)	-					

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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	2021/6/16	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Ovalipes punctatus</i>	Ovalipes punctatus	6	0.37	Juvenile	-	-	N.D.	N.D.(0.22)	N.D.(0.21)	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Evyomis japonica</i>	Crimson sea-bream	5	1.3	Immature fish	Shrimp	Viscera removed	0.49	N.D.(0.24)	0.49	N.D.(0.015)
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2021/6/15	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Carpenter prawn</i>	Carpenter prawn	266	0.31	Imago	-	-	1.1	N.D.(0.46)	1.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<u><i>Palaemon sp.</i></u>	<u>Palaemon</u>									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon macrodactylus</i>	Palaemon macrodactylus									
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	87	0.25	Juvenile,Imago	-	-	2.0	N.D.(0.62)	2.0	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.024	Juvenile	-	-	3.0	N.D.(1.6)	3.0	-
				Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	8	0.32	Juvenile,Imago	-	-	0.65	N.D.(0.57)	0.65	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	4	0.097	Mature fish	-	-	0.99	N.D.(0.52)	0.99	-
Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure puffer	1	0.15	Immature fish	-	-	N.D.	N.D.(0.45)	N.D.(0.40)	-				
Off Iwaki City	M-4	Hisanohama Coastal areas	2021/7/1	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	Eisenia bicyclis	-	0.32	-	-	-	0.41	N.D.(0.20)	0.41	-
				Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Saccharina japonica</i>	Japanese tangle	-	0.33	-	-	-	0.25	N.D.(0.24)	0.25	-
				Algae/plant	Phaeophyceae	Fucales	Sargassaceae	<i>Sargassum horneri</i>	Sargassum horneri	-	0.28	-	-	-	2.4	N.D.(0.26)	2.4	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	2	0.064	Immature fish	-	-	1.2	N.D.(0.64)	1.2	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	3	0.12	Immature fish	-	-	0.98	N.D.(0.60)	0.98	-
				Vertebrata	Osteichthyes	Perciformes	Scombridae	<i>Scomber japonicus</i>	Chub mackerel	1	0.027	Immature fish	-	-	N.D.	N.D.(1.5)	N.D.(1.5)	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure puffer	29	0.32	Immature fish	-	-	1.5	N.D.(0.22)	1.5	-

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