

○ Results (water)

Locations				2022 August 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°	7.6	1.2	4.2	7.9	17.1	0.09	1.7	10	4.5	N.D.(0.0013)	0.011	0.0010
	A-1(Bottom layer)	37.6210°	140.5218°	7.6	1.1	4.4	8.1	17.1	0.09	1.7	10	4.6	N.D.(0.0024)	0.017	-
	A-2	37.5673°	140.3946°	8.0	0.8	2.9	10.0	10.7	0.06	1.0	3	1.5	N.D.(0.0015)	0.011	-
	B-2	37.8121°	140.5058°	7.8	1.3	3.9	9.6	17.3	0.09	1.5	6	3.2	N.D.(0.0015)	0.011	-
	B-3	37.8182°	140.4679°	7.9	0.7	3.3	9.7	8.9	0.05	1.3	4	1.7	N.D.(0.0012)	0.0042	-
Uda River	C-6	37.7764°	140.8877°	7.4	<0.5	2.9	8.9	10.4	0.06	1.2	5	4.4	N.D.(0.0023)	0.0046	0.00073
Mano River	D-4 a	37.7308°	140.9081°	7.0	<0.5	2.5	8.8	9.7	0.08	1.1	2	1.3	N.D.(0.0014)	0.014	0.00081
Niida River	E-2 a	37.6640°	140.9447°	7.4	<0.5	3.8	8.5	8.0	0.05	1.8	7	4.9	N.D.(0.0017)	0.053	0.0017
Ota River	F-1	37.5975°	140.9252°	7.5	0.7	2.8	9.2	5.8	0.04	1.2	2	0.9	0.0020	0.081	0.0026
Ukedo River	N-1	37.4998°	140.9835°	7.4	<0.5	2.0	9.2	7.7	0.04	0.8	2	0.9	0.0020	0.074	0.0019
	N-2	37.5070°	140.9456°	7.5	<0.5	2.0	9.6	6.6	0.04	0.8	<1	0.6	0.0024	0.070	-
	N-3	37.4754°	140.9598°	7.6	<0.5	2.3	8.6	7.6	0.04	0.8	2	0.9	N.D.(0.0018)	0.023	-
Tomioka River	O-1	37.3547°	140.9780°	7.5	<0.5	2.2	8.3	7.8	0.05	0.8	3	1.1	N.D.(0.0016)	0.023	0.0011
	O-2	37.3624°	140.9612°	7.6	<0.5	2.3	8.4	7.9	0.05	0.9	2	1.2	N.D.(0.0015)	0.021	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	7.3	0.9	4.1	8.1	7.5	0.04	1.9	5	3.9	N.D.(0.0014)	0.016	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.4	0.8	3.6	8.7	6.7	0.05	1.6	7	2.6	N.D.(0.0015)	0.020	0.00068
	G-2(Surface layer)	37.7267°	140.8223°	7.8	0.7	3.6	8.6	7.7	0.04	1.8	2	1.5	N.D.(0.0014)	0.0082	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.0	0.5	3.1	4.5	7.6	0.04	1.6	3	3.1	N.D.(0.0013)	0.021	-
	G-4	37.7382°	140.8035°	7.7	<0.5	2.3	8.3	9.0	0.05	1.1	<1	1.0	N.D.(0.0013)	0.014	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.2	0.6	2.9	8.8	5.2	0.03	1.4	4	4.2	N.D.(0.0016)	0.0094	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.6	<0.5	6.5	5.4	3.8	0.03	2.9	55	70.0	0.0029	0.099	0.0013
	H-2(Surface layer)	37.6616°	140.1226°	7.1	<0.5	3.1	8.4	5.2	0.03	1.3	4	4.5	N.D.(0.0014)	0.0082	-
	H-2(Bottom layer)	37.6616°	140.1226°	6.5	0.7	4.5	1.3	4.4	0.03	1.7	25	23.4	0.0021	0.076	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	7.0	0.5	1.5	8.6	11.2	0.06	0.8	<1	0.4	N.D.(0.0015)	0.0043	-
	J-1(Bottom layer)	37.4203°	140.1008°	7.1	1.2	2.5	8.5	11.4	0.06	1.4	<1	1.0	N.D.(0.0015)	0.0048	0.00073
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	0.9	3.3	7.7	3460	26.17	1.5	4	2.8	N.D.(0.0012)	0.0034	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.9	0.6	2.1	6.5	4670	33.28	1.3	3	2.7	N.D.(0.0014)	0.0045	0.00085
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.9	0.9	4.1	6.6	3930	26.24	1.9	19	9.2	N.D.(0.0015)	0.019	0.00086
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.7	1.6	7.6	4650	32.57	1.2	<1	0.5	N.D.(0.0015)	0.0022	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	<0.5	2.0	7.4	5010	33.52	1.2	<1	0.6	N.D.(0.0014)	0.0027	0.00088

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

○ Results (sediments)

Locations				2022 August 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°	7.4	70	35.9	7.3	25.2	2.560	0.1	1.8	19.8	23.6	34.5	20.2	0.059	4.8	12	360	0.30
	A-2	37.5673°	140.3946°	7.3	497	25.1	1.8	2.7	2.660	12.2	46.3	31.3	2.2	3.5	4.5	0.98	9.5	2.4	94	-
	B-2	37.8121°	140.5058°	7.7	493	23.8	1.3	2.3	2.730	0.2	1.5	51.1	35.9	7.3	4.0	0.26	4.8	1.3	66	-
	B-3	37.8182°	140.4679°	7.6	483	22.0	1.0	1.7	2.610	53.0	26.6	7.7	2.9	6.6	3.2	2.1	9.5	1.5	43	-
Uda River	C-6	37.7764°	140.8877°	7.9	466	17.7	0.8	1.2	2.670	41.8	31.4	16.2	2.6	3.9	4.1	1.6	19	1.2	43	0.26
Mano River	D-4 a	37.7308°	140.9081°	7.8	441	19.3	1.8	2.4	2.690	29.4	41.5	14.1	4.6	4.9	5.5	1.3	9.5	2.8	110	0.55
Niida River	E-2 a	37.6640°	140.9447°	7.6	501	19.2	1.1	2.3	2.660	7.1	20.9	62.2	4.2	1.2	4.4	0.63	19	6.6	290	N.D.(0.14)
Ota River	F-1	37.5975°	140.9252°	7.5	476	21.2	1.0	1.6	2.640	14.9	23.3	37.2	12.5	6.2	5.9	0.60	9.5	4.9	230	0.59
Ukedo River	N-1	37.4998°	140.9835°	7.5	453	21.2	0.7	1.5	2.640	9.3	48.7	34.7	2.1	1.2	4.0	0.96	19	30	1200	N.D.(0.15)
	N-2	37.5070°	140.9456°	7.3	433	23.8	1.3	2.8	2.640	4.0	13.5	32.0	41.7	4.4	4.4	0.25	9.5	120	4500	-
	N-3	37.4754°	140.9598°	7.6	444	22.4	0.8	2.1	2.630	7.0	39.7	37.2	8.7	4.2	3.2	0.79	9.5	20	720	-
Tomioka River	O-1	37.3547°	140.9780°	7.6	396	25.9	2.9	6.5	2.630	8.3	10.3	25.4	37.3	12.5	6.2	0.20	27	18	760	0.33
	O-2	37.3624°	140.9612°	7.6	463	18.5	1.8	2.8	2.680	20.6	19.0	27.6	19.8	9.0	4.0	0.55	19	8.0	270	-
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	7.5	171	38.0	8.3	25.4	2.560	7.7	6.2	15.0	21.8	36.6	12.7	0.078	19	27	910	1.9
	G-2	37.7267°	140.8223°	7.4	359	19.7	1.3	2.4	2.630	16.8	18.8	30.5	16.3	12.0	5.6	0.50	19	4.6	180	-
	G-4	37.7382°	140.8035°	7.6	476	14.9	2.1	3.3	2.650	3.0	16.6	55.2	15.5	4.6	5.1	0.46	9.5	8.3	300	-
Lake Akimoto	H-1	37.6575°	140.1264°	7.0	101	53.6	8.9	30.2	2.500	0.0	0.0	0.1	0.3	56.5	43.1	0.0068	2.0	29	1000	1.3
	H-2	37.6616°	140.1226°	7.0	195	59.7	15.8	61.4	2.380	0.0	0.0	0.1	0.0	42.7	57.2	0.0034	2.0	12	380	-
Lake Inawashiro	J-1	37.4203°	140.1008°	6.5	397	27.8	2.0	5.6	2.690	2.2	5.6	29.5	43.0	14.8	4.9	0.18	9.5	1.7	55	0.15
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	244	31.9	2.9	4.7	2.690	0.0	0.0	0.5	50.8	39.3	9.4	0.077	2.0	3.2	100	N.D.(0.14)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	417	20.8	1.1	2.5	2.690	2.3	10.9	66.0	14.2	2.8	3.8	0.43	9.5	0.94	29	N.D.(0.15)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.8	375	26.1	1.5	2.1	2.730	0.1	0.1	0.9	91.2	3.1	4.6	0.15	4.8	0.63	23	N.D.(0.13)

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

O
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	2022/8/24	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	1	1.5	Mature fish	Obscure digesta	Viscera removed	1.9	N.D.(0.23)	1.9	0.27
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.46	Mature fish	Empty stomach	Viscera removed	6.1	N.D.(0.86)	6.1	-
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	1.3	Immature fish	Drone beetle	Viscera removed	5.4	N.D.(0.83)	5.4	0.19
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	1.3	Mature fish	Empty stomach	Viscera removed	8.0	N.D.(1.2)	8.0	0.20
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	3.3	Mature fish	Empty stomach	Viscera removed	15	N.D.(1.7)	15	0.34
	A-2	Harase River	2022/8/23	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.013	-	-	-	70	N.D.(15)	70	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>	25	0.012	Larva (Dragonfly larva)	-	-	3.9	N.D.(3.0)	3.9	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.029	Imago	-	-	11	N.D.(1.9)	11	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	Neocaridina	174	0.036	Juvenile,Imago	-	-	4.0	N.D.(0.89)	4.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	127	0.58	Immature fish, Mature fish	-	-	4.9	N.D.(0.35)	4.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.018	Immature fish	-	-	8.3	N.D.(1.8)	8.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	16	0.068	Immature fish, Mature fish	-	-	8.5	N.D.(1.3)	8.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	2	0.010	Immature fish	-	-	4.1	N.D.(2.7)	4.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	25	0.22	Immature fish, Mature fish	-	-	6.5	N.D.(0.37)	6.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	16	0.079	Immature fish, Mature fish	-	-	4.9	N.D.(0.68)	4.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	246	1.1	Immature fish	-	-	3.9	N.D.(0.33)	3.9	0.21
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	2	0.023	Immature fish	-	-	5.0	N.D.(1.5)	5.0	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	3	0.017	Ammocoetes(larva)	-	-	N.D.	N.D.(1.9)	N.D.(1.8)	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.27	-	-	-	99.8	2.8	97	-

*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	2022/8/27	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	1	0.64	Mature fish	Obscure digesta	Viscera removed	22	N.D.(1.3)	22	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.2	Mature fish	Obscure digesta	Viscera removed	8.7	N.D.(0.79)	8.7	0.47
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.4	Mature fish	Obscure digesta	Viscera removed	7.0	N.D.(0.84)	7.0	0.37
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.6	Mature fish	Obscure digesta	Viscera removed	2.4	N.D.(0.46)	2.4	0.38
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	7	0.42	Mature fish	-	-	5.0	N.D.(0.41)	5.0	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	7	1.3	Immature fish	Fish	Viscera removed	5.5	N.D.(0.63)	5.5	0.21
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	1.6	Mature fish	Empty stomach	Viscera removed	8.9	N.D.(0.66)	8.9	0.19
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	2.2	Mature fish	Empty stomach	Viscera removed	8.6	N.D.(0.72)	8.6	0.17
	B-3	Surikami River	2022/8/23	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	24	N.D.(3.0)	24	-
			2022/8/26	Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.28	-	-	-	3.0	N.D.(0.33)	3.0	-
			2022/8/23	Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	178	0.045	Larva	-	-	5.5	N.D.(0.96)	5.5	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u><i>Macromia amphigena amphigena</i></u>	65	0.035	Larva (Dragonfly larva)	-	-	1.2	N.D.(0.88)	1.2	-
				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	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	4	0.080	Imago	-	-	4.8	N.D.(0.77)	4.8	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	1.2	Immature fish, Mature fish	Stone loach, Dragonfly(larva)	Viscera removed	4.8	N.D.(0.49)	4.8	0.11
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	29	0.19	Immature fish	-	-	1.8	N.D.(0.32)	1.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	80	0.44	Immature fish, Mature fish	-	-	3.2	N.D.(0.29)	3.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.024	Immature fish	-	-	3.2	N.D.(1.5)	3.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	6	0.031	Immature fish	-	-	3.1	N.D.(1.2)	3.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.3	Mature fish	Obscure digesta	Viscera removed	1.3	N.D.(0.30)	1.3	0.25
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	6	0.014	Mature fish	-	-	4.2	N.D.(2.3)	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	128	1.5	Immature fish	-	-	2.2	N.D.(0.30)	2.2	0.31
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	13	0.46	Immature fish, Mature fish	-	-	6.6	N.D.(0.70)	6.6	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	0.67	Immature fish	Empty stomach	Viscera removed	0.48	N.D.(0.26)	0.48	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	12	0.20	Immature fish	-	-	1.6	N.D.(0.29)	1.6	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	2	0.023	Immature fish	-	-	4.3	N.D.(1.4)	4.3	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	9	0.012	Immature fish	-	-	2.2	N.D.(1.7)	2.2	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.7	Mature fish	Stone loach	Viscera removed	9.6	N.D.(1.4)	9.6	0.42
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.28	-	-	-	18	N.D.(1.4)	18	-

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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	2022/8/18	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0093	-	-	-	35	N.D.(7.5)	35	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.32	-	-	-	0.76	N.D.(0.23)	0.76	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	8	0.092	Imago	-	-	3.0	N.D.(0.59)	3.0	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	275	0.10	Juvenile,Imago	-	-	2.5	N.D.(0.43)	2.5	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	3	0.083	Juvenile	-	-	4.5	N.D.(0.59)	4.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	6	0.051	Immature fish	-	-	2.8	N.D.(0.94)	2.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	1	0.024	Immature fish	-	-	8.8	N.D.(1.7)	8.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.037	Immature fish, Mature fish	-	-	3.5	N.D.(1.3)	3.5	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	201	1.8	Immature fish	-	-	7.5	N.D.(0.64)	7.5	0.13
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	3	0.037	Immature fish	-	-	5.5	N.D.(1.3)	5.5	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	62	0.10	Immature fish, Mature fish	-	-	2.9	N.D.(0.51)	2.9	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	<u>Rhinogobius</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	9.1	N.D.(1.5)	9.1	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Mano River	D-4 b	The main stream of the Mano River	2022/8/18	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0060	-	-	-	54	N.D.(8.9)	54	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.31	-	-	-	4.1	N.D.(0.33)	4.1	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>	80	0.025	Larva (Dragonfly larva)	-	-	5.1	N.D.(1.5)	5.1	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</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>Davidius</i> sp.	<i>Davidius</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</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	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	35	0.017	Larva	-	-	2.7	N.D.(1.9)	2.7	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.073	Imago	-	-	7.2	N.D.(1.2)	7.2	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	55	0.066	Imago	-	-	3.4	N.D.(0.74)	3.4	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	320	0.069	Juvenile,Imago	-	-	3.7	N.D.(0.84)	3.7	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	17	0.48	Juvenile	-	-	4.8	N.D.(0.90)	4.8	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	3	1.2	Mature fish	Fish	Viscera removed	17	N.D.(1.2)	17	0.097
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	3	0.10	Immature fish	-	-	5.0	N.D.(0.64)	5.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	0.17	Immature fish, Mature fish	-	-	7.2	N.D.(0.93)	7.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	150	0.42	Immature fish	-	-	6.2	N.D.(0.66)	6.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	9	0.13	Immature fish, Mature fish	-	-	6.9	N.D.(1.1)	6.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	4	0.022	Immature fish, Mature fish	-	-	5.5	N.D.(1.8)	5.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	35	0.084	Immature fish, Mature fish	-	-	4.8	N.D.(0.77)	4.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	123	1.7	Immature fish, Mature fish	-	-	15	N.D.(1.1)	15	0.25
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	2	0.034	Immature fish	-	-	12	N.D.(1.3)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	119	0.32	Mature fish	-	-	5.7	N.D.(0.69)	5.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	<u><i>Rhinogobius</i></u>									
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.025	Mature fish	-	-	4.3	N.D.(1.4)	4.3	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	<u>Japanese brown frog</u>	3	0.0099	Imago	-	-	4.2	N.D.(2.7)	4.2	-
				Vertebrata	Amphibia	Anura	Hylidae	<i>Hyla japonica</i>	Japanese tree flog									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	16	N.D.(1.1)	16	-

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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	2022/8/21	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0071	-	-	-	48	N.D.(11)	48	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	133	0.030	Larva	-	-	110	N.D.(6.4)	110	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>	11	0.0064	Larva (Dragonfly larva)	-	-	36	N.D.(5.4)	36	-
				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>									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	<i>Anax parthenope julius</i>									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	20	0.012	Larva	-	-	11	N.D.(2.8)	11	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	11	0.042	Juvenile, Imago	-	-	21	N.D.(3.1)	21	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	16	0.011	Juvenile, Imago	-	-	16	N.D.(4.0)	16	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	20	0.30	Juvenile	-	-	22	N.D.(1.4)	22	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	5	1.7	Immature fish, Mature fish	Japanese mitten Crab, Fish	Viscera removed	51.9	1.9	50	0.18
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	5	0.14	Immature fish	-	-	15	N.D.(1.6)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.46	Immature fish, Mature fish	Empty stomach	Viscera removed	19	N.D.(1.3)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	13	0.094	Immature fish, Mature fish	-	-	12	N.D.(1.7)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	15	0.12	Immature fish, Mature fish	-	-	18	N.D.(2.2)	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	7	0.065	Mature fish	-	-	13	N.D.(2.4)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	24	0.12	Immature fish	-	-	9.8	N.D.(2.2)	9.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	24	0.064	Immature fish, Mature fish	-	-	11	N.D.(1.7)	11	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	23	0.53	Immature fish, Mature fish	-	-	58	N.D.(1.4)	58	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	46	0.14	Immature fish, Mature fish	-	-	20	N.D.(1.9)	20	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	<i>Rhinogobius kurodai</i>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Rhinogobius									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	86.0	2.0	84	-
	E-3	The main stream of the Niida River	2022/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.035	Mature fish	-	-	8.2	N.D.(1.3)	8.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	7	0.092	Immature fish, Mature fish	-	-	7.9	N.D.(1.6)	7.9	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	18	0.74	Immature fish, Mature fish	-	-	30	N.D.(1.5)	30	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ota River	F-1	The main stream of the Ota River	2022/8/19	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.017	-	-	-	773	23	750	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	83	0.021	Larva	-	-	50	N.D.(7.3)	50	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>	19	0.0065	Larva (Dragonfly larva)	-	-	49	N.D.(7.2)	49	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	<i>Meligomphus viridicostus</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	33	0.015	Larva	-	-	27	N.D.(5.8)	27	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	73	0.076	Imago	-	-	85	N.D.(3.3)	85	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	133	0.022	Juvenile	-	-	65	N.D.(9.8)	65	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	14	0.060	Juvenile	-	-	89	N.D.(4.6)	89	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	7	2.3	Mature fish	Common prawn	Viscera removed	123.7	3.7	120	0.52
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	0.43	Mature fish	Obscure digesta	Viscera removed	133.2	3.2	130	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	21	0.22	Immature fish, Mature fish	-	-	91.3	2.3	89	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	28	0.17	Immature fish, Mature fish	-	-	64	N.D.(1.9)	64	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	1	0.026	Immature fish	-	-	60	N.D.(6.0)	60	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	6	0.014	Immature fish, Mature fish	-	-	55	N.D.(12)	55	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	2	0.060	Immature fish, Mature fish	-	-	177.8	7.8	170	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	12	0.073	Immature fish, Mature fish	-	-	237.9	7.9	230	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>									
				Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Rhacophorus schlegelii</i>	Schlegel's green tree frog	5	0.015	Imago	-	-	19	N.D.(4.3)	19	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	154.1	4.1	150	-
	F-5	The main stream of the Ota River	2022/8/21	Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.036	Imago	-	-	27	N.D.(5.7)	27	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	211	0.082	Juvenile,Imago	-	-	19	N.D.(2.3)	19	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	7	0.018	Juvenile	-	-	32	N.D.(4.1)	32	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	8	0.81	Immature fish, Mature fish	Empty stomach	Viscera removed	63.8	1.8	62	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	5	0.025	Immature fish	-	-	24	N.D.(4.8)	24	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.035	Immature fish	-	-	19	N.D.(3.1)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	12	0.086	Immature fish, Mature fish	-	-	19	N.D.(2.3)	19	-
			2022/9/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	13	0.18	Immature fish, Mature fish	-	-	16	N.D.(1.7)	16	-
			2022/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	15	0.061	Immature fish	-	-	17	N.D.(3.5)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.6	Mature fish	Obscure digesta	Viscera removed	42	N.D.(1.3)	42	1.6
			2022/9/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.7	Mature fish	Obscure digesta	Viscera removed	59	N.D.(1.5)	59	1.8
			2022/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.010	Immature fish, Mature fish	-	-	8.2	N.D.(3.0)	8.2	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	228	1.7	Immature fish	-	-	82.3	2.3	80	0.58
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.019	Immature fish	-	-	22	N.D.(1.9)	22	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>	34	0.055	Immature fish, Mature fish	-	-	31	N.D.(3.4)	31	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Rhinogobius									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	69	0.15	Immature fish, Mature fish	-	-	19	N.D.(1.9)	19	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	2	0.021	Immature fish	-	-	69	N.D.(8.0)	69	-

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*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	
Ukedo River	N-1	The main stream of the Ukedo River	2022/8/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.010	-	-	-	220	N.D.(29)	220	-
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.26	-	-	-	163.4	3.4	160	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	82	0.017	Larva	-	-	321	11	310	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	63	0.047	Imago	-	-	98	N.D.(4.4)	98	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.019	Juvenile	-	-	110	N.D.(6.7)	110	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	36	0.24	Immature fish	-	-	113.2	3.2	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.15	Immature fish, Mature fish	Obscure digesta	Viscera removed	112.9	2.9	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	5	0.028	Immature fish	-	-	72	N.D.(7.7)	72	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	15	0.066	Immature fish	-	-	56	N.D.(4.5)	56	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	3	0.016	Immature fish	-	-	52	N.D.(11)	52	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	7.3	Mature fish	Obscure digesta	Viscera removed	205.2	5.2	200	2.2
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus melanogaster</i>	<i>Acheilognathus melanogaster</i>	4	0.0094	Immature fish, Mature fish	-	-	110	N.D.(23)	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	2	0.013	Mature fish	-	-	65	N.D.(11)	65	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	50	0.34	Immature fish	-	-	256.6	6.6	250	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>	24	0.033	Immature fish, Mature fish	-	-	100	N.D.(6.3)	100	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	5	0.025	Immature fish, Mature fish	-	-	110	N.D.(6.3)	110	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	2	0.78	Imago	-	-	73.9	1.9	72	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	607	17	590	-
	N-2	The main stream of the Ukedo River	2022/8/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0078	-	-	-	490	N.D.(19)	490	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	54	0.012	Larva	-	-	170	N.D.(13)	170	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	68	0.033	Larva	-	-	41	N.D.(4.5)	41	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	64	0.052	Imago	-	-	134.6	4.6	130	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	131	0.0085	Juvenile	-	-	87	N.D.(14)	87	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.11	Juvenile	-	-	185.6	5.6	180	-
				Mollusca	Bivalvia	Veneroida	Corbicula	Corbicula.sp	Corbicula	60	0.0093	Imago	-	Molluscous part	99	N.D.(18)	99	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	7	0.15	Immature fish	-	-	174.2	4.2	170	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.12	Immature fish, Mature fish	-	-	255.7	5.7	250	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	36	0.17	Immature fish	-	-	101.4	2.4	99	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	6	0.018	Immature fish	-	-	110	N.D.(11)	110	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	56	0.64	Immature fish, Mature fish	-	-	265.6	5.6	260	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	1	0.033	Immature fish	-	-	230	N.D.(6.2)	230	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>	13	0.018	Immature fish, Mature fish	-	-	210	N.D.(9.0)	210	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	4	0.055	Mature fish	-	-	130	N.D.(4.2)	130	-
				Vertebrata	Osteichthyes	Siluriformes	Amblycipitidae	<i>Liobagrus reini</i>	Torrent catfish	2	0.015	Mature fish	-	-	120	N.D.(14)	120	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	350	10	340	-
	N-3	The main stream of the Takase River	2022/8/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	26	N.D.(3.9)	26	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	108	0.022	Larva	-	-	90	N.D.(8.7)	90	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	7	0.0093	Imago	-	-	28	N.D.(3.3)	28	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	10	0.039	Juvenile	-	-	39	N.D.(5.2)	39	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	19	0.15	Immature fish	-	-	12	N.D.(1.2)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	1	0.0078	Immature fish	-	-	71	N.D.(16)	71	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	155	1.2	Immature fish	-	-	17	N.D.(1.3)	17	0.26
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	265	2.8	Immature fish	-	-	70.4	2.4	68	0.27
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u><i>Rhinogobius nagoyae</i></u>	52	0.089	Immature fish, Mature fish	-	-	29	N.D.(2.4)	29	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	<i>Rhinogobius</i>									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	163.7	3.7	160	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Tomioka River	O-1	The main stream of the Tomioka River	2022/8/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0061	-	-	-	75	N.D.(14)	75	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<i>Isonychia valida</i>	102	0.0075	Larva	-	-	30	N.D.(4.7)	30	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	47	0.0096	Larva	-	-	31	N.D.(5.0)	31	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	62	0.034	Larva	-	-	6.1	N.D.(1.3)	6.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	30	0.039	Imago	-	-	15	N.D.(3.1)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	8	0.084	Immature fish, Mature fish	-	-	19	N.D.(2.4)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	14	0.10	Immature fish, Mature fish	-	-	16	N.D.(2.2)	16	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	1	0.069	Mature fish	-	-	30	N.D.(4.6)	30	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	4	0.018	Mature fish	-	-	19	N.D.(3.9)	19	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	2	0.035	Mature fish	-	-	6.1	N.D.(1.7)	6.1	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	40	N.D.(1.4)	40	-
	O-2	The main stream of the Tomioka River	2022/8/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0054	-	-	-	75	N.D.(20)	75	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	40	0.020	Larva	-	-	7.5	N.D.(1.8)	7.5	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	60	0.076	Imago	-	-	11	N.D.(1.3)	11	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	11	0.23	Juvenile	-	-	19	N.D.(1.4)	19	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.17	Mature fish	Empty stomach	Viscera removed	19	N.D.(2.1)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	56	0.57	Immature fish, Mature fish	-	-	18	N.D.(1.3)	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	18	0.23	Immature fish, Mature fish	-	-	32	N.D.(1.2)	32	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	15	1.2	Mature fish	-	-	32	N.D.(1.5)	32	0.18
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	7	0.17	Immature fish, Mature fish	Obscure digesta	Viscera removed	25	N.D.(1.8)	25	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	8	0.061	Mature fish	-	-	17	N.D.(2.5)	17	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	39	N.D.(1.6)	39	-

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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	2022/8/22	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.011	-	-	-	N.D.	N.D.(3.4)	N.D.(2.7)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.2	Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.3)	16	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.3	Mature fish	Obscure digesta	Viscera removed	15	N.D.(1.3)	15	0.44
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.4	Mature fish	Obscure digesta	Viscera removed	20	N.D.(1.3)	20	0.53
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.8	Mature fish	Empty stomach	Viscera removed	93.6	2.6	91	0.49
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	41	0.56	Immature fish, Mature fish	Ant,Spiders	Viscera removed	26	N.D.(1.3)	26	-
	G-4	Inflowing rivers	2022/8/22	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0043	-	-	-	51	N.D.(8.3)	51	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	85	0.015	Larva	-	-	44	N.D.(6.9)	44	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	25	0.022	Larva	-	-	9.7	N.D.(2.0)	9.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	112	1.4	Immature fish	-	-	21	N.D.(1.4)	21	0.27
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	61	0.45	Immature fish, Mature fish	-	-	32	N.D.(1.2)	32	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	14	0.16	Immature fish	Rhinogobius flumineus	Viscera removed	12	N.D.(1.5)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	19	0.056	Immature fish, Mature fish	-	-	13	N.D.(1.9)	13	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	<i>Rhinogobius flumineus</i>									
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.8	Mature fish	Empty stomach	Viscera removed	122.3	2.3	120	0.50				
Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	46.4	1.4	45	-			

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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 Akimoto	H-1 H-2 H-3	In the lake	2022/8/26	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.011	-	-	-	12	N.D.(3.1)	12	-
				Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	20	0.85	Imago	-	-	15	N.D.(1.2)	15	4.9
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.56	Mature fish	-	-	20	N.D.(1.5)	20	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	3	1.9	Mature fish	Obscure digesta	Viscera removed	14	N.D.(1.1)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.3	Mature fish	Obscure digesta	Viscera removed	17	N.D.(1.1)	17	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.26	Mature fish	Empty stomach	Viscera removed	15	N.D.(1.4)	15	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	7	1.2	Immature fish	Obscure digesta	Viscera removed	26	N.D.(1.4)	26	-
	H-3	Inflowing rivers	2022/8/26	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.15	-	-	-	16	N.D.(2.2)	16	-
	H-4	Within the lake and rivers in the vicinity	2022/8/26	Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western waterweed	-	0.26	-	-	-	1.7	N.D.(0.28)	1.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	2	0.087	Immature fish	-	-	6.3	N.D.(0.83)	6.3	-

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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	2022/8/24	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	5	0.021	Juvenile,Imago	-	-	3.5	N.D.(1.9)	3.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.034	Immature fish	-	-	4.4	N.D.(1.4)	4.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	6	0.064	Immature fish, Mature fish	-	-	3.0	N.D.(1.0)	3.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus rhombeus</i>	<i>Acheilognathus rhombeus</i>	12	0.031	Immature fish	-	-	1.9	N.D.(1.5)	1.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	5	0.041	Immature fish	-	-	4.2	N.D.(1.1)	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	0.010	Immature fish	-	-	N.D.	N.D.(3.5)	N.D.(2.9)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	3.4	Mature fish	Obscure digesta	Viscera removed	9.3	N.D.(1.4)	9.3	0.37
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Slender bitterling</i>	<i>Slender bitterling</i>	5	0.016	Immature fish, Mature fish	-	-	2.1	N.D.(2.3)	2.1	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	99	0.25	Immature fish	-	-	3.9	N.D.(0.51)	3.9	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.0	Mature fish	Fish,Common prawn,Moth(larva)	Viscera removed	12	N.D.(1.3)	12	0.24
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	1	0.012	Imago	-	-	3.2	N.D.(2.2)	3.2	-
			2022/8/25	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	N.D.	N.D.(0.31)	N.D.(0.29)	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2022/8/25	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0055	-	-	-	N.D.	N.D.(5.6)	N.D.(5.5)	-
			2022/8/24	Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.27	-	-	-	0.99	N.D.(0.25)	0.99	-
				Algae/plant	Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	-	1.8	-	-	-	0.50	N.D.(0.071)	0.50	-
				Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western waterweed	-	0.29	-	-	-	8.09	0.49	7.6	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>	20	0.0097	Larva (Dragonfly larva)	-	-	3.9	N.D.(2.8)	3.9	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i> sp.	<i>Sympetrum</i>									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	<i>Anax parthenope julius</i>									
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	30	0.064	Juvenile	-	Molluscous part	N.D.	N.D.(0.98)	N.D.(0.93)	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	18	0.0084	Juvenile,Imago	-	Molluscous part	N.D.	N.D.(5.0)	N.D.(3.3)	-
			2022/8/25	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	3	0.91	Mature fish	Obscure digesta	Viscera removed	13	N.D.(1.2)	13	-
			2022/8/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus langsdorfii</i>	<i>Carassius auratus langsdorfii</i>	3	1.0	Mature fish	Obscure digesta	Viscera removed	20	N.D.(1.5)	20	0.44
			2022/8/25	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	1.6	Mature fish	Obscure digesta	Viscera removed	6.7	N.D.(0.82)	6.7	0.47
			2022/8/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.5	Mature fish	Obscure digesta	Viscera removed	1.4	N.D.(0.32)	1.4	0.28
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.3	Mature fish	Obscure digesta	Viscera removed	39	N.D.(1.3)	39	0.51
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	1	1.3	Mature fish	Obscure digesta	Viscera removed	11	N.D.(1.3)	11	0.61
			2022/8/24	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	135	0.59	Immature fish, Mature fish	-	-	0.59	N.D.(0.26)	0.59	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Yamame trout	1	0.070	Immature fish	-	-	0.92	N.D.(0.76)	0.92	-
			2022/8/25	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.5	Immature fish, Mature fish	Common prawn, Japanese smelt	Viscera removed	18	N.D.(1.2)	18	0.27
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	1	1.3	Mature fish	Fish	Viscera removed	21	N.D.(1.2)	21	0.75
			2022/8/26	Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	1	1.5	Mature fish	Fish	Viscera removed	28	N.D.(1.2)	28	0.58
			2022/8/24	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	8	0.12	Immature fish, Mature fish	-	-	2.0	N.D.(0.50)	2.0	-
			2022/8/26	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.3	Mature fish	Common prawn	Viscera removed	23	N.D.(1.3)	23	0.28
			2022/8/24	Vertebrata	Amphibia	Anura	-	-	Frog	30	0.019	Larva(Tadpole)	-	-	39	N.D.(7.0)	39	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	10	0.11	Imago	-	-	1.5	N.D.(0.76)	1.5	-
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	<i>Tokyo daruma pond frog</i>									
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	<i>Cynops pyrrhogaster</i>	36	0.19	Imago	-	-	0.62	N.D.(0.40)	0.62	-

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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	2022/8/22	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	10	1.4	Juvenile,Imago	-	-	N.D.	N.D.(0.24)	N.D.(0.24)	0.041
				Mollusca	Cephalopoda	Decapodiformes	Ommastrephidae	<i>Todarodes pacificus</i>	Japanese flying squid	7	0.49	Juvenile	-	-	N.D.	N.D.(0.28)	N.D.(0.24)	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes herzensteini</i>	Yellow striped flounder	20	1.1	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.24)	N.D.(0.23)	-

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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 Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2022/8/18	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus</i> sp.	Hemigrapsus	54	0.061	Juvenile,Imago	-	-	1.5	N.D.(0.59)	1.5	-
				Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	11	0.66	Juvenile,Imago	-	-	0.36	N.D.(0.37)	0.36	0.13
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	6	0.47	Immature fish	Ragworm,Shellfish, Crustacea	Viscera removed	0.52	N.D.(0.27)	0.52	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	5	0.13	Mature fish	-	-	0.67	N.D.(0.37)	0.67	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	19	0.12	Immature fish	-	-	19	N.D.(1.9)	19	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	<i>Takifugu niphobles</i>	1	0.053	Mature fish	-	-	0.82	N.D.(0.73)	0.82	-

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*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	
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2022/8/30	Echinodermata	Asteroidea	Forcipulatida	Asteriidae	<i>Asterias amurensis</i>	Northern pacific seastar	3	0.54	Imago	-	-	N.D.	N.D.(0.25)	N.D.(0.24)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	3	0.67	Mature fish	Ragworm	Viscera removed	1.1	N.D.(0.37)	1.1	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	4	1.3	Mature fish	Shrimp,Crab	Viscera removed	0.98	N.D.(0.24)	0.98	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	4	0.65	Mature fish	Ragworm	Viscera removed	0.65	N.D.(0.23)	0.65	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	1	0.32	Mature fish	Empty stomach	Viscera removed	0.64	N.D.(0.29)	0.64	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	1.1	Immature fish, Mature fish	Empty stomach	Viscera removed	0.39	N.D.(0.23)	0.39	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	2	0.76	Immature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.25)	N.D.(0.24)	-
				Vertebrata	Chondrichthyes	Squatiniformes	Squatinidae	<i>Squatina japonica</i>	Japanese angelshark	1	3.2	Immature fish	Empty stomach	Viscera removed	0.42	N.D.(0.25)	0.42	N.D.(0.013)
	M-4	Hisanohama Coastal areas	2022/8/30	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	<i>Eisenia bicyclis</i>	-	0.28	-	-	-	0.32	N.D.(0.27)	0.32	-
				Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis</i> sp.	Abalone	6	0.57	Imago	-	Molluscous part	N.D.	N.D.(0.28)	N.D.(0.27)	-
				Echinodermata	Echinoidea	Echinoida	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	7	0.74	Imago	-	-	N.D.	N.D.(0.26)	N.D.(0.24)	-

*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.

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*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.

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