

○ Results (water)

Locations				2023 August - September 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°	7.4	1.4	4.6	7.5	18.7	0.10	2.1	9	4.5	N.D.(0.0014)	0.011	0.0011
	A-1(Bottom layer)	37.6210°	140.5218°	7.4	1.6	5.0	7.6	19.2	0.10	2.2	13	4.7	N.D.(0.0015)	0.017	-
	A-2	37.5673°	140.3946°	7.4	0.8	3.8	9.3	13.3	0.07	1.4	10	2.3	N.D.(0.0013)	0.011	-
	B-2	37.8121°	140.5058°	7.8	1.1	4.3	9.7	19.8	0.10	2.0	10	4.5	N.D.(0.0016)	0.029	-
	B-3	37.8182°	140.4679°	7.7	0.7	3.5	10.1	8.0	0.04	1.5	4	1.5	N.D.(0.0014)	0.0031	-
Uda River	C-6	37.7764°	140.8877°	7.9	1.2	3.6	9.0	13.4	0.07	1.3	3	2.8	N.D.(0.0015)	0.0045	0.0010
Mano River	D-4 a	37.7308°	140.9081°	7.4	1.1	2.3	12.1	16.5	0.09	1.1	3	1.7	N.D.(0.0014)	0.0032	0.0010
Niida River	E-2 a	37.6640°	140.9447°	7.2	0.7	5.2	8.2	7.9	0.04	2.5	14	14.9	0.0017	0.12	0.0015
Ota River	F-1	37.5975°	140.9252°	7.4	<0.5	3.3	8.7	7.7	0.04	1.5	3	1.5	0.0022	0.16	0.0046
Ukedo River	N-1	37.4998°	140.9835°	6.8	0.6	3.0	6.7	10.3	0.06	1.1	2	1.8	0.0017	0.12	0.0014
	N-2	37.5070°	140.9456°	7.2	0.8	4.3	7.6	7.6	0.04	1.5	5	2.3	0.0055	0.26	-
	N-3	37.4754°	140.9598°	7.6	0.5	2.7	8.5	8.2	0.05	1.1	4	1.4	N.D.(0.0015)	0.049	-
Tomioka River	O-1	37.3547°	140.9780°	7.3	0.7	2.1	7.8	10.8	0.06	0.9	2	0.9	N.D.(0.0015)	0.017	0.0030
	O-2	37.3624°	140.9612°	7.4	0.7	2.1	8.1	9.9	0.05	0.9	2	1.4	N.D.(0.0015)	0.022	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7322°	140.8127°	7.4	0.9	4.2	8.2	9.6	0.05	2.2	4	3.3	N.D.(0.0014)	0.028	-
	G-1(Bottom layer)	37.7322°	140.8127°	7.3	1.0	4.5	7.8	10.0	0.05	2.3	5	4.0	N.D.(0.0013)	0.031	0.00094
	G-2(Surface layer)	37.7267°	140.8223°	7.8	0.7	4.1	8.2	9.5	0.05	2.3	2	2.1	N.D.(0.0014)	0.025	-
	G-2(Bottom layer)	37.7267°	140.8223°	6.9	<0.5	3.0	1.5	9.2	0.05	1.5	3	2.6	N.D.(0.0014)	0.018	-
	G-4	37.7382°	140.8035°	8.2	<0.5	2.6	8.0	10.7	0.06	1.4	<1	0.6	N.D.(0.0012)	0.0091	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.2	<0.5	2.6	8.2	6.1	0.04	1.3	<1	0.8	N.D.(0.0013)	0.0075	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.6	0.6	3.7	4.6	4.7	0.03	1.4	9	4.2	N.D.(0.0015)	0.016	0.0012
	H-2(Surface layer)	37.6616°	140.1226°	7.2	0.5	2.9	7.8	6.2	0.04	1.2	<1	1.2	N.D.(0.0016)	0.0070	-
	H-2(Bottom layer)	37.6616°	140.1226°	6.6	1.7	7.0	1.1	8.8	0.05	2.7	11	10.0	N.D.(0.0015)	0.0070	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.9	<0.5	1.7	8.0	11.7	0.06	0.8	<1	0.4	N.D.(0.0014)	0.0044	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.9	<0.5	2.4	8.5	11.8	0.06	1.1	<1	0.6	N.D.(0.0013)	0.0039	0.00068
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°	8.3	1.4	3.2	8.1	4000	26.64	1.8	3	2.6	N.D.(0.0014)	0.0044	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.9	0.7	1.8	5.3	4870	33.88	1.3	5	4.2	N.D.(0.0016)	0.0069	0.00085
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	1.4	3.6	7.4	4750	33.12	1.6	20	10.2	N.D.(0.0014)	0.013	0.00078
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	1.0	1.7	7.9	4770	34.14	1.1	2	0.8	N.D.(0.0015)	0.0031	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.6	1.4	8.2	4830	34.37	1.0	2	1.2	N.D.(0.0015)	0.0031	0.00094

Note1) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

Note2) The survey site at Lake Hayama (Mano Dam) G-1 was moved 500 m downstream due to drought.

○ Results (sediments)

Locations				2023 August - September 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°	7.5	82	25.4	2.5	6.4	2.740	0.2	3.2	45.9	31.3	10.7	8.7	0.24	4.8	3.7	140	N.D.(0.12)
	A-2	37.5673°	140.3946°	7.3	493	19.7	1.8	3.5	2.680	28.1	47.7	15.7	2.4	2.8	3.3	1.4	9.5	1.8	73	-
	B-2	37.8121°	140.5058°	7.3	392	25.0	2.3	2.5	2.710	0.2	2.2	59.6	27.8	4.4	5.8	0.31	4.8	2.3	100	-
	B-3	37.8182°	140.4679°	7.5	493	20.7	1.3	1.5	2.640	14.1	40.9	37.3	3.8	0.1	3.8	0.93	9.5	0.65	43	-
Uda River	C-6	37.7764°	140.8877°	7.8	489	16.8	1.0	0.6	2.680	43.2	33.9	15.0	2.0	2.0	3.9	1.7	9.5	0.76	40	0.18
Mano River	D-4 a	37.7308°	140.9081°	7.8	455	20.4	2.6	4.2	2.700	24.7	38.9	19.8	8.0	4.5	4.1	1.1	9.5	3.3	120	0.66
Niida River	E-2 a	37.6640°	140.9447°	7.4	450	22.3	2.0	3.7	2.650	9.6	39.2	39.5	2.4	3.4	5.9	0.83	4.8	8.4	440	0.19
Ota River	F-1	37.5975°	140.9252°	7.3	451	31.5	5.2	2.6	2.670	0.0	0.5	7.8	39.8	38.5	13.4	0.071	4.8	9.9	530	2.2
Ukedo River	N-1	37.4998°	140.9835°	7.1	396	21.4	1.0	0.9	2.640	5.1	26.1	54.9	9.2	1.2	3.5	0.61	9.5	37	1800	N.D.(0.12)
	N-2	37.5070°	140.9456°	7.6	469	21.2	0.9	1.1	2.640	14.2	41.5	35.5	4.1	1.3	3.4	0.94	9.5	42	2200	-
	N-3	37.4754°	140.9598°	7.3	463	24.4	1.7	3.7	2.640	5.5	15.4	53.0	18.4	2.9	4.8	0.45	9.5	25	1400	-
Tomioka River	O-1	37.3547°	140.9780°	7.5	475	19.4	1.6	2.2	2.660	30.4	20.3	36.4	4.5	3.9	4.5	0.86	19	7.3	330	0.21
	O-2	37.3624°	140.9612°	7.3	219	35.1	5.5	8.1	2.640	2.1	1.1	20.0	52.9	13.8	10.1	0.14	9.5	18	810	-
Lake Hayama (Mano Dam)	G-1	37.7322°	140.8127°	7.2	63	53.5	14.7	64.0	2.500	0.0	0.0	0.1	3.1	62.8	34.0	0.013	2.0	47	2600	2.3
	G-2	37.7267°	140.8223°	7.2	118	39.8	9.4	34.0	2.560	4.4	4.8	7.7	12.1	48.4	22.6	0.032	4.8	37	1800	-
	G-4	37.7382°	140.8035°	7.7	474	25.5	2.4	1.2	2.670	26.3	44.2	19.6	3.3	2.7	3.9	1.3	9.5	3.3	170	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.7	106	51.8	9.9	35.0	2.460	0.0	0.0	0.1	0.5	53.9	45.5	0.0060	2.0	16	890	1.2
	H-2	37.6616°	140.1226°	6.5	115	53.6	13.8	51.0	2.400	0.0	0.0	0.1	0.0	39.3	60.6	0.0030	2.0	6.8	280	-
Lake Inawashiro	J-1	37.4203°	140.1008°	6.9	434	22.5	0.9	1.9	2.810	2.5	3.7	45.4	43.8	1.2	3.4	0.26	9.5	0.27	18	N.D.(0.12)
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	78	31.9	4.9	11.0	2.640	0.0	0.0	0.5	44.0	39.7	15.8	0.066	2.0	3.2	130	N.D.(0.12)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.9	53	28.5	3.3	5.1	2.690	0.4	0.7	16.7	61.0	13.8	7.4	0.14	4.8	1.5	94	N.D.(0.12)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.8	300	23.2	2.1	1.6	2.770	0.6	0.4	2.1	89.2	3.0	4.7	0.14	9.5	0.54	20	N.D.(0.12)

Note1) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

Note2) The survey site at Lake Hayama (Mano Dam) G-1 was moved 500 m downstream due to drought.

○ Results (aquatic organisms)

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Abukuma River System	A-1	The main stream of the Abukuma River	2023/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	21	0.083	Immature fish, Mature fish	-	-	4.1	N.D.(0.57)	4.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	81	0.47	Immature fish, Mature fish	-	-	5.8	N.D.(0.56)	5.8	-
			2023/8/22	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	2	0.76	Mature fish	Obscure digesta	Viscera removed	2.1	N.D.(0.25)	2.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius cuvieri</i>	Japanese white crucian carp	1	1.7	Mature fish	Obscure digesta	Viscera removed	2.1	N.D.(0.24)	2.1	0.41
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	6.0	Mature fish	Obscure digesta	Viscera removed	2.6	N.D.(0.45)	2.6	0.11
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	2	1.9	Mature fish	Obscure digesta	Viscera removed	2.8	N.D.(0.26)	2.8	0.28
			2023/8/21	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	8	0.030	Immature fish	-	-	N.D.	N.D.(1.3)	N.D.(1.2)	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus nigricans</i>	Largemouth bass	4	0.033	Immature fish	-	-	2.7	N.D.(1.3)	2.7	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	2	0.018	Immature fish	-	-	3.2	N.D.(2.7)	3.2	-
			2023/8/22	Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	American catfish	2	4.8	Mature fish	Empty stomach	Viscera removed	18	N.D.(1.4)	18	0.28
			2023/8/21	Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog	1	0.026	Imago	-	-	7.5	N.D.(1.7)	7.5	-
	A-2	Harase River	2023/8/22	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0096	-	-	-	110	N.D.(17)	110	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	132	0.035	Larva (Dragonfly larva)	-	-	3.8	N.D.(1.0)	3.8	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiogomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	30	0.017	Larva	-	-	4.4	N.D.(1.9)	4.4	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.031	Imago	-	-	6.1	N.D.(1.2)	6.1	-
				Arthropoda	Malacostraca	Decapoda	Potamidae	<i>Geothelphusa dehaani</i>	Japanese freshwater crab	5	0.018	Juvenile	-	-	4.9	N.D.(2.0)	4.9	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	Neocaridina	107	0.077	Juvenile,Imago	-	-	5.6	N.D.(0.64)	5.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	19	0.078	Immature fish, Mature fish	-	-	4.7	N.D.(0.82)	4.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	2	0.041	Immature fish	-	-	15	N.D.(1.3)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	14	0.10	Immature fish	-	-	11	N.D.(1.2)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio	2	0.024	Immature fish, Mature fish	-	-	6.8	N.D.(2.1)	6.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	20	0.18	Immature fish, Mature fish	-	-	8.1	N.D.(0.99)	8.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	14	0.028	Immature fish, Mature fish	-	-	2.9	N.D.(1.3)	2.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	231	0.95	Immature fish	-	-	3.3	N.D.(0.42)	3.3	0.18
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	1	0.015	Immature fish	-	-	5.4	N.D.(2.3)	5.4	-
				Vertebrata	Amphibia	Anura	Hylidae	<i>Dryophytes japonica</i>	Japanese tree flog	7	0.010	Imago	-	-	N.D.	N.D.(2.8)	N.D.(2.6)	-
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	39.4	1.4	38	-

*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-3	Surikami River	2023/8/25	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.011	-	-	-	28	N.D.(4.0)	28	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	322	0.091	Larva	-	-	11	N.D.(0.82)	11	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	60	0.030	Larva (Dragonfly larva)	-	-	1.1	N.D.(1.2)	1.1	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	32	0.022	Larva	-	-	3.5	N.D.(1.5)	3.5	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	46	0.21	Immature fish	-	-	2.1	N.D.(0.29)	2.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	50	0.19	Immature fish, Mature fish	-	-	2.3	N.D.(0.33)	2.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	25	0.23	Immature fish, Mature fish	-	-	3.0	N.D.(0.34)	3.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	34	0.41	Immature fish	-	-	2.7	N.D.(0.22)	2.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	69	1.8	Immature fish, Mature fish	-	-	9.3	N.D.(1.2)	9.3	0.31
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Cherry salmon	1	1.0	Mature fish	Empty stomach	Viscera removed	0.33	N.D.(0.32)	0.33	0.048
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	4	0.053	Immature fish	-	-	1.6	N.D.(0.90)	1.6	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.26	-	-	-	15	N.D.(1.6)	15	-

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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	2023/8/26	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.011	-	-	-	46	N.D.(8.7)	46	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.14	-	-	-	0.81	N.D.(0.43)	0.81	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	77	0.022	Larva	-	-	7.7	N.D.(1.9)	7.7	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	24	0.0070	Larva (Dragonfly larva)	-	-	N.D.	N.D.(4.2)	N.D.(3.4)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Davidius</i> sp.</u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiogomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	25	0.015	Larva	-	-	2.9	N.D.(2.1)	2.9	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	25	0.032	Juvenile,Imago	-	-	2.1	N.D.(1.3)	2.1	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	218	0.063	Juvenile,Imago	-	-	3.4	N.D.(0.70)	3.4	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	7	0.071	Juvenile	-	-	5.2	N.D.(0.75)	5.2	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.23	Mature fish	Empty stomach	Viscera removed	4.5	N.D.(1.0)	4.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	9	0.24	Immature fish, Mature fish	Obscure digesta	Viscera removed	3.8	N.D.(0.37)	3.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	145	0.45	Immature fish	-	-	1.9	N.D.(0.31)	1.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	51	0.15	Immature fish	-	-	2.0	N.D.(0.31)	2.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	256	2.4	Immature fish	-	-	6.6	N.D.(0.86)	6.6	0.15
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Floating goby	4	0.032	Immature fish	-	-	3.6	N.D.(1.5)	3.6	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	70	0.12	Immature fish, Mature fish	-	-	3.5	N.D.(0.60)	3.5	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius</i> sp.</u>	<u>Freshwater goby</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	8.3	N.D.(1.7)	8.3	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Mano River	D-3	The main stream of the Mano River	2023/8/30	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	53	1.3	Immature fish, Mature fish	-	-	3.4	N.D.(0.69)	3.4	0.13
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	126	1.8	Immature fish, Mature fish	-	-	2.9	N.D.(0.50)	2.9	0.20
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	164	3.7	Immature fish, Mature fish	-	-	9.5	N.D.(1.3)	9.5	0.13
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	1	1.1	Mature fish	Fish	Viscera removed	142.6	2.6	140	0.52
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead grey mullet	6	0.084	Immature fish	-	-	15	N.D.(2.6)	15	-
	D-4 b	The main stream of the Mano River	2023/8/26	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.012	-	-	-	63	N.D.(9.1)	63	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.20	-	-	-	0.35	N.D.(0.30)	0.35	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	38	0.0099	Larva	-	-	7.2	N.D.(3.1)	7.2	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	102	0.023	Larva (Dragonfly larva)	-	-	1.7	N.D.(2.0)	1.7	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	83	0.044	Larva	-	-	3.8	N.D.(1.0)	3.8	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	70	0.072	Imago	-	-	3.5	N.D.(1.1)	3.5	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	416	0.089	Juvenile,Imago	-	-	3.5	N.D.(0.61)	3.5	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	19	0.21	Juvenile	-	-	4.7	N.D.(0.88)	4.7	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	0.89	Mature fish	<i>Eriocheir japonica</i>	Viscera removed	11	N.D.(2.0)	11	0.060
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	105	0.42	Immature fish	-	-	5.3	N.D.(0.94)	5.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	6.6	Mature fish	Obscure digesta	Viscera removed	10	N.D.(1.3)	10	0.62
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Field gudgeon	25	0.072	Immature fish, Mature fish	-	-	1.8	N.D.(0.77)	1.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	21	0.21	Immature fish	-	-	23	N.D.(1.5)	23	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	47	0.093	Immature fish, Mature fish	-	-	3.4	N.D.(0.59)	3.4	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.OR	Amur goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Freshwater goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Freshwater goby									
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.080	Mature fish	Migratory locust	Viscera removed	4.8	N.D.(0.89)	4.8	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	26	N.D.(1.4)	26	-
	D-5	The main stream of the Mano River	2023/9/7	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	5	0.58	Immature fish, Mature fish	<i>Protohermes grandis</i> , <i>Planaeschna milnei milnei</i> , Acrididae,Carabidae	Viscera removed	96	N.D.(1.7)	96	-

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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	2023/8/26	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.012	-	-	-	200	N.D.(16)	200	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	53	0.011	Larva	-	-	63	N.D.(13)	63	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	34	0.012	Larva (Dragonfly larva)	-	-	20	N.D.(5.0)	20	-
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Melligomphus viridicostus</i></u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Shaogomphus postocularis</i></u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	60	0.035	Larva	-	-	21	N.D.(1.7)	21	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.039	Imago	-	-	22	N.D.(4.3)	22	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	202	0.26	Imago	-	-	16	N.D.(1.5)	16	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	118	0.030	Juvenile,Imago	-	-	15	N.D.(3.3)	15	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	23	0.39	Juvenile	-	-	25	N.D.(1.2)	25	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.39	Mature fish	<i>Eriocheir japonica</i> , <i>Sieboldius albardae</i>	Viscera removed	18	N.D.(1.2)	18	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	5	0.067	Immature fish	-	-	14	N.D.(2.4)	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	11	0.23	Immature fish, Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.5)	16	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	290	1.3	Immature fish, Mature fish	-	-	13	N.D.(1.3)	13	0.59
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio	3	0.049	Mature fish	-	-	9.0	N.D.(1.1)	9.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	90	0.43	Immature fish, Mature fish	-	-	9.7	N.D.(1.2)	9.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	3	0.46	Immature fish	Obscure digesta	Viscera removed	8.2	N.D.(1.3)	8.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Field gudgeon	44	0.14	Immature fish, Mature fish	-	-	9.9	N.D.(1.4)	9.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	10	0.096	Immature fish	-	-	9.4	N.D.(1.7)	9.4	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	33	0.56	Immature fish, Mature fish	-	-	47	N.D.(1.2)	47	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	106	0.26	Immature fish, Mature fish	-	-	12	N.D.(1.1)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius</i> sp.</u>	<u>Freshwater goby</u>									
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.070	Immature fish	<i>Palaemon paucidens</i>	Viscera removed	19	N.D.(3.4)	19	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	14	0.088	Larva(Tadpole)	-	-	223.8	3.8	220	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.25	-	-	-	66	N.D.(1.5)	66	-

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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	2023/8/28	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.055	-	-	-	296.8	6.8	290	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	80	0.021	Larva	-	-	28	N.D.(6.1)	28	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	56	0.0089	Larva (Dragonfly larva)	-	-	64	N.D.(9.9)	64	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Davidius sp.</i></u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	30	0.014	Larva	-	-	17	N.D.(3.8)	17	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	141	0.18	Imago	-	-	69.9	1.9	68	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	419	0.063	Juvenile,Imago	-	-	69	N.D.(3.4)	69	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	17	0.037	Juvenile	-	-	66	N.D.(3.7)	66	-
				Mollusca	Bivalvia	Veneroida	Corbicula	<i>Corbicula sp.</i>	Corbicula	391	0.011	Imago	-	Molluscouc part	31	N.D.(4.3)	31	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	29	0.010	Juvenile,Imago	-	Molluscouc part	45	N.D.(3.6)	45	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	7	1.9	Immature fish, Mature fish	<i>Stenopsyche marmorata</i>	Viscera removed	235.3	5.3	230	0.58
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	4	0.15	Immature fish, Mature fish	Obscure digesta	Viscera removed	96	N.D.(2.2)	96	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	47	0.20	Immature fish, Mature fish	-	-	53	N.D.(1.7)	53	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	96	0.49	Immature fish, Mature fish	-	-	38.3	1.3	37	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	7	0.14	Immature fish, Mature fish	-	-	133.2	3.2	130	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	1	0.032	Immature fish	-	-	52	N.D.(5.8)	52	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	15	0.052	Mature fish	-	-	99	N.D.(5.8)	99	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius nagoyae</i></u>	<u>Rhinogobius</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.29	-	-	-	266.2	6.2	260	-
	F-5	The main stream of the Ota River	2023/8/28	Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.0058	Juvenile	-	-	18	N.D.(5.9)	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Silver crucian carp	1	0.084	Mature fish	Obscure digesta	Viscera removed	12	N.D.(1.5)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.023	Mature fish	-	-	51	N.D.(4.9)	51	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	7	0.022	Larva(Tadpole)	-	-	47	N.D.(7.0)	47	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.16	Imago	-	-	9.5	N.D.(1.5)	9.5	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ukedo River	N-1	The main stream of the Ukedo River	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0097	-	-	-	350	N.D.(21)	350	-
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.24	-	-	-	203.1	3.1	200	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	75	0.011	Larva (Dragonfly larva)	-	-	74	N.D.(18)	74	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum</i> sp.	Common skimmer									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	48	0.057	Imago	-	-	80	N.D.(3.9)	80	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	11	0.019	Juvenile	-	-	100	N.D.(5.5)	100	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	1.1	Mature fish	Empty stomach	Viscera removed	244.0	4.0	240	0.36
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	49	0.058	Immature fish	-	-	42	N.D.(4.2)	42	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	5	0.21	Immature fish, Mature fish	Obscure digesta	Viscera removed	122.3	2.3	120	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	88	0.28	Immature fish, Mature fish	-	-	95	N.D.(1.4)	95	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	3	0.011	Immature fish	-	-	50	N.D.(13)	50	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	1	0.0064	Immature fish	-	-	100	N.D.(23)	100	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	6.0	Mature fish	Obscure digesta	Viscera removed	141.9	1.9	140	3.0
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis</i> sp.	Japanese striped loach	4	0.0080	Mature fish	-	-	74	N.D.(17)	74	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	4	0.0069	Immature fish	-	-	8.3	N.D.(4.1)	8.3	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	305	1.8	Immature fish	-	-	234.8	4.8	230	0.53
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	1	0.039	Immature fish	-	-	120	N.D.(5.8)	120	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius	115	0.10	Immature fish, Mature fish	-	-	51	N.D.(2.3)	51	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius</i> sp.</u>	<u>Freshwater goby</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	9	0.030	Immature fish, Mature fish	-	-	120	N.D.(7.4)	120	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	3	0.0057	Immature fish	-	-	84	N.D.(18)	84	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.26	-	-	-	264.5	4.5	260	-

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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	
Ukedo River	N-2	The main stream of the Ukedo River	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.021	-	-	-	180	N.D.(7.9)	180	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	104	0.028	Larva (Dragonfly larva)	-	-	81	N.D.(6.8)	81	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	17	0.0087	Larva	-	-	42	N.D.(9.1)	42	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	105	0.079	Imago	-	-	124.1	4.1	120	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	488	0.049	Juvenile	-	-	140	N.D.(4.8)	140	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	7	0.059	Juvenile	-	-	164.8	4.8	160	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	5	0.060	Immature fish	-	-	170	N.D.(4.0)	170	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	10	0.044	Immature fish	-	-	81	N.D.(4.8)	81	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	84	0.77	Immature fish, Mature fish	-	-	376.9	6.9	370	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius</u>	38	0.072	Immature fish, Mature fish	-	-	110	N.D.(3.4)	110	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Freshwater goby									
				Vertebrata	Osteichthyes	Siluriformes	Amblycipitidae	<i>Liobagrus reinii</i>	Torrent catfish	7	0.028	Immature fish, Mature fish	-	-	72	N.D.(6.1)	72	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.20	-	-	-	91.0	2.0	89	-
	N-3	The main stream of the Takase River	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0075	-	-	-	78	N.D.(20)	78	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	112	0.019	Larva	-	-	90	N.D.(11)	90	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	72	0.010	Larva (Dragonfly larva)	-	-	9.6	N.D.(3.3)	9.6	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Dragonfly									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	25	0.030	Imago	-	-	20	N.D.(3.5)	20	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	345	0.050	Juvenile,Imago	-	-	27	N.D.(4.0)	27	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.080	Juvenile	-	-	28	N.D.(2.8)	28	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	29	0.11	Immature fish	-	-	13	N.D.(2.1)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	6	0.032	Immature fish, Mature fish	-	-	48	N.D.(5.8)	48	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	47	0.34	Immature fish	-	-	11	N.D.(0.99)	11	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	151	1.1	Immature fish, Mature fish	-	-	98.4	2.4	96	0.25
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius</u>	37	0.047	Immature fish, Mature fish	-	-	18	N.D.(3.6)	18	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Freshwater goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	25	0.085	Immature fish	-	-	37	N.D.(2.2)	37	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	204.2	4.2	200	-

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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	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0052	-	-	-	97	N.D.(23)	97	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	68	0.013	Larva	-	-	100	N.D.(12)	100	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	148	0.018	Larva (Dragonfly larva)	-	-	7.1	N.D.(1.5)	7.1	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Davidius</i> sp.</u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiogomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	36	0.020	Larva	-	-	5.8	N.D.(1.8)	5.8	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	151	0.16	Imago	-	-	22	N.D.(1.5)	22	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	281	0.042	Juvenile, Imago	-	-	11	N.D.(2.3)	11	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	7	0.071	Juvenile	-	-	18	N.D.(2.4)	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	7	0.017	Immature fish	-	-	22	N.D.(3.0)	22	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	10	0.45	Immature fish, Mature fish	-	-	40	N.D.(1.3)	40	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	5	0.011	Immature fish, Mature fish	-	-	15	N.D.(2.8)	15	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius nagoyae</i></u>	<u>Rhinogobius</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.26	-	-	-	98.9	1.9	97	-
	O-2	The main stream of the Tomioka River	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0066	-	-	-	210	N.D.(18)	210	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	38	0.020	Larva	-	-	14	N.D.(2.4)	14	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	115	0.14	Imago	-	-	19	N.D.(2.2)	19	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	4	0.038	Juvenile	-	-	17	N.D.(3.2)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	28	0.21	Immature fish	-	-	29	N.D.(1.4)	29	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	11	0.093	Immature fish, Mature fish	-	-	24	N.D.(2.7)	24	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	50	2.1	Immature fish, Mature fish	-	-	47	N.D.(1.5)	47	0.18
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	10	0.15	Immature fish	-	-	20	N.D.(2.0)	20	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	25	0.058	Immature fish, Mature fish	-	-	12	N.D.(2.7)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u><i>Rhinogobius nagoyae</i></u>	<u>Rhinogobius</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	112.0	2.0	110	-

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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	2023/8/30	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.022	-	-	-	4.2	N.D.(1.7)	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	11	2.7	Mature fish	Obscure digesta	Viscera removed	59.6	1.6	58	0.29
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.9	Mature fish	Obscure digesta	Viscera removed	27	N.D.(1.5)	27	0.44
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.1	Mature fish	Empty stomach	Viscera removed	89	N.D.(1.8)	89	0.61
	G-4	Inflowing rivers	2023/8/29	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.025	-	-	-	56	N.D.(7.9)	56	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	104	0.015	Larva	-	-	13	N.D.(2.7)	13	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	179	0.020	Larva (Dragonfly larva)	-	-	5.4	N.D.(2.0)	5.4	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u><i>Davidius sp.</i></u>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	41	0.027	Larva	-	-	3.9	N.D.(1.8)	3.9	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	29	0.011	Juvenile,Imago	-	Molluscous part	6.5	N.D.(3.7)	6.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	93	1.6	Immature fish, Mature fish	Obscure digesta	Viscera removed	10	N.D.(2.0)	10	0.24
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	4	0.039	Immature fish	-	-	11	N.D.(2.8)	11	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	2	0.75	Immature fish, Mature fish	<i>Sieboldius albardae</i>	Viscera removed	79	N.D.(1.6)	79	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	6	0.13	Immature fish	<i>Paratyta improvisa</i> , Phryganeidae, Heptagenioidea, <i>Physa acuta</i>	Viscera removed	13	N.D.(1.7)	13	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	13	0.057	Immature fish, Mature fish	-	-	11	N.D.(1.1)	11	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius	128	0.12	Immature fish	-	-	7.1	N.D.(1.6)	7.1	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.58	Mature fish	Empty stomach	Viscera removed	52	N.D.(1.5)	52	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	32.2	1.2	31	-

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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	2023/8/25	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.029	-	-	-	N.D.	N.D.(1.5)	N.D.(1.3)	-
				Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Esthwaite waterweed	-	0.16	-	-	-	14	N.D.(1.9)	14	-
				Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	22	0.68	Juvenile,Imago	-	-	13	N.D.(1.9)	13	5.8
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	20	0.52	Immature fish, Mature fish	Obscure digesta	Viscera removed	9.1	N.D.(1.2)	9.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	4	3.0	Mature fish	Obscure digesta	Viscera removed	25	N.D.(1.1)	25	1.4
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	3	2.0	Immature fish, Mature fish	Obscure digesta	Viscera removed	31	N.D.(1.4)	31	1.2
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	60	0.30	Mature fish	-	-	6.8	N.D.(1.3)	6.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	2	0.40	Mature fish	Empty stomach	Viscera removed	12	N.D.(1.7)	12	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Cherry salmon	4	1.2	Immature fish	<i>Hypomesus nipponensis</i>	Viscera removed	11	N.D.(1.3)	11	0.24
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	9	2.5	Immature fish, Mature fish	<i>Hypomesus nipponensis</i> , <i>Palaemon paucidens</i>	Viscera removed	24	N.D.(1.3)	24	0.84
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	17	0.17	Immature fish	<i>Palaemon paucidens</i>	Viscera removed	9.2	N.D.(0.99)	9.2	-
	H-3	Inflowing rivers	2023/8/24	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0072	-	-	-	32	N.D.(8.4)	32	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	50	0.0086	Larva	-	-	N.D.	N.D.(4.5)	N.D.(3.8)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	28	0.25	Immature fish	-	-	2.9	N.D.(0.34)	2.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	69	0.26	Immature fish	-	-	3.0	N.D.(0.43)	3.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	10	0.20	Immature fish	Aquatic insect	Viscera removed	3.7	N.D.(0.37)	3.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	8	0.10	Immature fish	-	-	3.6	N.D.(0.76)	3.6	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	9.2	N.D.(1.3)	9.2	-
	H-4	Within the lake and rivers in the vicinity	2023/8/24	Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly	13	0.012	Larva (Dragonfly larva)	-	-	5.1	N.D.(3.5)	5.1	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	30	0.035	Imago	-	Molluscous part	1.8	N.D.(1.4)	1.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	8	0.034	Immature fish, Mature fish	-	-	N.D.	N.D.(1.8)	N.D.(1.6)	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	2	0.039	Imago	-	-	6.3	N.D.(1.3)	6.3	-
				Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Japanese newt	2	0.0097	Imago	-	-	N.D.	N.D.(4.5)	N.D.(3.6)	-

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												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	2023/8/23	Arthropoda	Insecta	Odonata	Corduliidae	<u>Macromia amphigena amphigena</u>	Dragonfly	23	0.013	Larva (Dragonfly larva)	-	-	N.D.	N.D.(2.7)	N.D.(2.3)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<u>Sieboldius albardae</u>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<u>Asiagomphus melaenops</u>	Dragonfly									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<u>Procambarus clarkii</u>	Red swamp crawfish	8	0.12	Imago	-	-	2.8	N.D.(0.48)	2.8	-
				Arthropoda	Malacostraca	Decapoda	Astacidae	<u>Pacifastacus leniusculus</u>	Signal crayfish	29	0.16	Juvenile, Imago	-	-	2.5	N.D.(0.43)	2.5	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<u>Palaemon paucidens</u>	Lake prawn	163	0.072	Juvenile, Imago	-	-	3.3	N.D.(0.78)	3.3	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<u>Semisulcospira libertina</u>	Freshwater snail	19	0.0086	Juvenile, Imago	-	Molluscou part	3.7	N.D.(3.7)	3.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Opsariichthys platypus</u>	Pale break	4	0.056	Immature fish, Mature fish	-	-	2.8	N.D.(0.95)	2.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Acheilognathus rhombeus</u>	Acheilognathus	3	0.048	Immature fish	-	-	1.6	N.D.(1.1)	1.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Gnathopogon elongatus elongatus</u>	Field gudgeon	22	0.13	Immature fish, Mature fish	-	-	2.9	N.D.(0.59)	2.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Tanakia lanceolata</u>	Slender bitterling	44	0.058	Immature fish, Mature fish	-	-	2.0	N.D.(0.94)	2.0	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Gymnogobius urotaenia</u>	Floating goby	102	0.30	Immature fish	-	-	3.2	N.D.(0.39)	3.2	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<u>Silurus asotus</u>	Amur catfish	3	0.64	Immature fish	Freshwater clam, <u>Radix auricularia japonica</u> , <u>Tanakia lanceolata</u> , Rhinogobius	Viscera removed	3.1	N.D.(0.31)	3.1	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	7.7	N.D.(0.79)	7.7	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2023/8/23	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.019	-	-	-	N.D.	N.D.(2.1)	N.D.(1.6)	-
			2023/8/22	Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<u>Elodea nuttallii</u>	Esthwaite waterweed	-	0.27	-	-	-	3.4	N.D.(0.69)	3.4	-
			2023/8/23	Arthropoda	Insecta	Odonata	Corduliidae	<u>Epophthalmia elegans</u>	Dragonfly	58	0.027	Larva (Dragonfly larva)	-	-	2.7	N.D.(1.3)	2.7	-
				Arthropoda	Insecta	Odonata	Libellulidae	<u>Deielia phaon</u>	Frosted skimmer									
				Arthropoda	Insecta	Odonata	Aeshnidae	<u>Anax parthenope julius</u>	Jumbo dragonfly									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<u>Palaemon paucidens</u>	Lake prawn	372	0.19	Imago	-	-	7.5	N.D.(0.58)	7.5	-
				Mollusca	Bivalvia	Unionoida	Unionidae	<u>Beringiana japonica</u>	Pond mussel	14	0.83	Imago	-	Molluscou part	0.50	N.D.(0.26)	0.50	-
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<u>Sinotaia histrica</u>	Mud snail	30	0.031	Juvenile, Imago	-	Molluscou part	4.9	N.D.(1.7)	4.9	-
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<u>Cipangopaludina chinensis laeta</u>	Mud snail	1	0.020	Imago	-	Molluscou part	6.7	N.D.(2.1)	6.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Carassius</u> sp.	Silver crucian carp	14	3.8	Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.2)	16	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Cyprinus carpio</u>	Common carp	1	1.0	Mature fish	Obscure digesta	Viscera removed	1.4	N.D.(0.33)	1.4	0.21
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Hemibarbus barbus</u>	Barbel steed	2	1.7	Mature fish	Obscure digesta	Viscera removed	20	N.D.(1.4)	20	0.39
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<u>Micropterus dolomieu dolomieu</u>	Smallmouth bass	3	1.6	Mature fish	Empty stomach	Viscera removed	15	N.D.(1.4)	15	0.26
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Gymnogobius urotaenia</u>	Floating goby	10	0.024	Immature fish	-	-	7.8	N.D.(1.5)	7.8	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<u>Silurus asotus</u>	Amur catfish	1	0.92	Mature fish	Empty stomach	Viscera removed	20	N.D.(3.5)	20	0.22

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												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	2023/8/30	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	2	0.49	Imago	-	-	N.D.	N.D.(0.21)	N.D.(0.21)	-
			2023/10/2	Vertebrata	Osteichthyes	Perciformes	Scombridae	<i>Scomber japonicus</i>	Chub mackerel	4	1.1	Immature fish, Mature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.28)	N.D.(0.28)	-
				Vertebrata	Osteichthyes	Perciformes	Sciaenidae	<i>Pennahia argentata</i>	White croaker	5	1.1	Mature fish	Empty stomach	Viscera removed	0.41	N.D.(0.28)	0.41	-
				Vertebrata	Osteichthyes	Perciformes	Sciaenidae	<i>Nibea mitsukurii</i>	Nibe croaker	2	0.54	Mature fish	Polychaeta	Viscera removed	0.63	N.D.(0.32)	0.63	-

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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	2023/8/28	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.036	-	-	-	1.4	N.D.(1.4)	1.4	-
				Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	0.28	-	-	-	0.99	N.D.(0.30)	0.99	-
				Annelida	Polychaeta	Eunicida	Lumbrineridae	Lumbrineridae	Lumbrineridae	72	0.035	Juvenile,Imago	-	-	N.D.	N.D.(1.1)	N.D.(1.0)	-
				Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Ceratonereis erythraeensis</i>	<i>Ceratonereis</i>									
				Annelida	Polychaeta	Spionida	Cirratulidae	Cirratulida	Cirratulidae									
				Arthropoda	Malacostraca	Decapoda	Alpheidae	Alpheidae	Alpheidae	65	0.078	Juvenile	-	-	1.1	N.D.(0.50)	1.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon</i> sp.	Lake prawn	268	0.20	Imago	-	-	0.65	N.D.(0.32)	0.65	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus</i> sp.	Japanese shore crab	181	0.40	Juvenile,Imago	-	-	1.2	N.D.(0.19)	1.2	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	2	0.055	Juvenile	-	-	1.6	N.D.(0.83)	1.6	-
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	78	0.60	Imago	-	Molluscouc part	0.55	N.D.(0.31)	0.55	-
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	12	0.31	Immature fish	-	-	0.75	N.D.(0.29)	0.75	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	5	0.15	Immature fish	Crustacea	Viscera removed	0.71	N.D.(0.32)	0.71	-
				Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Pholis	14	0.033	Immature fish, Mature fish	-	-	N.D.	N.D.(1.5)	N.D.(1.3)	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger trigonocephalus</i>	Chameleon goby	304	0.50	Immature fish, Mature fish	-	-	0.34	N.D.(0.25)	0.34	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius lactipes</i>	Whitelimbed goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acentrogobius virgatus</i>	Streaked goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger obscurus</i>	Dusky tripletooth goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Gobiidae</u>	<u>Gobiidae</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Favonigobius gymnauchen</i>	Sharp-nosed sand goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	9	0.15	Immature fish, Mature fish	-	-	0.74	N.D.(0.31)	0.74	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead grey mullet	8	0.010	Immature fish	-	-	6.9	N.D.(3.8)	6.9	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu alboplumbeus</i>	Grass puffer	3	0.082	Immature fish, Mature fish	-	-	0.68	N.D.(0.50)	0.68	-

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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 Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2023/9/2	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Redwing searobin	5	1.1	Mature fish	Shrimp,Polychaeta,Crab	Viscera removed	1.1	N.D.(0.25)	1.1	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Spiny red gurnard	3	0.92	Mature fish	Fish,Crab,Polychaeta	Viscera removed	0.45	N.D.(0.30)	0.45	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys cornutus</i>	Ridged-eye flounder	2	0.24	Immature fish, Mature fish	Polychaeta	Viscera removed	0.33	N.D.(0.35)	0.33	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pseudopleuronectes yokohamae</i>	Marbled flounder	4	0.69	Immature fish	Shellfish	Viscera removed	0.36	N.D.(0.25)	0.36	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	4	1.9	Immature fish, Mature fish	Fish	Viscera removed	N.D.	N.D.(0.24)	N.D.(0.22)	N.D.(0.017)
				Vertebrata	Osteichthyes	Perciformes	Carangidae	<i>Kaiwarinus equula</i>	Whitefin trevally	9	0.31	Immature fish	Obscure digesta	Viscera removed	0.32	N.D.(0.23)	0.32	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	2	2.8	Mature fish	Crab,Shellfish	Viscera removed	1.0	N.D.(0.26)	1.0	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Vermiculated puffer	8	1.3	Immature fish	Shellfish	Viscera removed	0.71	N.D.(0.27)	0.71	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	3	1.4	Immature fish, Mature fish	Fish	Viscera removed	N.D.	N.D.(0.28)	N.D.(0.27)	-
				Vertebrata	Chondrichthyes	Squatiniiformes	Squatinaidae	<i>Squatina japonica</i>	Japanese angelshark	1	1.7	Immature fish	Obscure digesta	Viscera removed	1.1	N.D.(0.25)	1.1	-
				Vertebrata	Chondrichthyes	Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	1	1.1	Immature fish	Crab	Viscera removed	0.60	N.D.(0.24)	0.60	-
	M-4	Hisanohama Coastal areas	2023/9/2	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	Eisenia	-	0.28	-	-	-	0.45	N.D.(0.30)	0.45	-
				Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis</i> sp.	Abalone	2	0.18	Imago	-	Molluscouc part	N.D.	N.D.(0.29)	N.D.(0.28)	-
				Echinodermata	Echinoidea	Echinoida	Strongylocentrotidae	<i>Mesocentrotus nudus</i>	Northern sea urchin	19	2.1	Imago	-	-	0.23	N.D.(0.23)	0.23	-

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