

○ Results (water)

Locations			2017 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°	7.4	0.8	4.0	8.5	16.2	0.09	1.6	8	3.3	0.0025	0.021	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.4	1.1	5.0	8.5	16.5	0.10	1.9	11	4.6	0.0043	0.033	-
	A-2	37.5673°	140.3946°	7.2	0.6	3.4	9.7	10.8	0.06	1.2	7	2.8	0.0033	0.025	-
	B-2	37.8121°	140.5058°	7.3	0.8	3.7	8.8	14.2	0.08	1.6	8	3.6	0.0032	0.022	-
	B-3	37.8182°	140.4679°	7.4	<0.5	3.5	10.0	8.2	0.05	1.4	4	1.8	0.0020	0.016	-
Uda River	C-6	37.7764°	140.8877°	7.5	<0.5	2.6	9.8	10.6	0.08	1.1	2	1.3	0.0012	0.0092	0.00085
Mano River	D-4 a	37.7308°	140.9081°	7.2	<0.5	3.0	9.9	8.5	0.05	1.3	<1	1.1	0.0017	0.016	0.0011
Niida River	E-2 a	37.6640°	140.9447°	7.3	<0.5	3.2	10.2	7.8	0.04	1.3	3	2.7	0.017	0.11	0.0018
Ota River	F-1	37.5975°	140.9252°	7.4	<0.5	3.1	9.4	5.6	0.03	1.2	2	1.2	0.027	0.19	0.0036
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	8.1	3.0	7.7	11.1	6.8	0.04	2.4	7	1.6	0.0051	0.034	-
	G-1(Bottom layer)	37.7321°	140.8127°	8.1	1.5	5.2	9.8	6.9	0.04	2.4	2	1.4	0.0026	0.020	0.0012
	G-4	37.7382°	140.8035°	7.6	<0.5	3.5	9.4	7.4	0.04	1.3	1	1.5	0.0033	0.018	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	6.9	<0.5	3.6	7.9	5.1	0.03	1.4	1	1.2	0.0023	0.015	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.5	<0.5	4.2	6.7	4.2	0.03	1.5	2	1.5	0.0015	0.0083	0.0014
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.7	<0.5	2.2	8.2	10.7	0.06	0.9	<1	0.8	N.D.(0.0012)	0.0091	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.7	<0.5	2.2	8.2	10.6	0.06	0.8	1	0.8	N.D.(0.0012)	0.0072	0.0011
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.1	1.0	3.5	7.6	3100	19.73	1.4	4	2.6	0.0010	0.0079	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.0	0.9	2.3	6.5	4950	33.58	1.4	5	3.1	0.0016	0.0099	0.00098
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	1.0	3.7	8.1	2610	17.49	1.5	8	5.2	0.0037	0.027	0.00097
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.5	2.2	7.7	4820	32.15	1.1	2	0.7	N.D.(0.0011)	0.0051	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	<0.5	1.7	7.5	5020	33.74	1.0	1	0.4	N.D.(0.0011)	0.0048	0.0010

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

○ Results (sediments)

Locations			2017 August Survey																	
	Latitude	Longitude	pH	Redox potential E _{N,H.E} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
									Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)				
Abukuma River System	A-1	37.6210°	140.5218°	7.2	201	69.9	13.6	42.5	2.548	0.0	0.1	0.2	11.3	45.7	42.7	0.0091	2.0	250	1900	0.71
	A-2	37.5673°	140.3946°	7.1	298	35.3	4.0	5.4	2.702	2.7	10.4	55.2	15.5	6.3	9.9	0.38	9.5	42	340	-
	B-2	37.8121°	140.5058°	7.3	362	28.6	2.1	2.4	2.710	3.9	2.3	58.5	29.8	2.0	3.5	0.31	19	27	200	-
	B-3	37.8182°	140.4679°	7.3	300	17.5	1.4	1.4	2.688	42.5	36.9	18.9	1.1	0.0	0.6	1.7	19	10	85	-
Uda River	C-6	37.7764°	140.8877°	7.6	294	17.1	1.3	1.0	2.710	20.8	47.2	30.3	1.3	0.4		1.2	9.5	24	180	0.35
Mano River	D-4 a	37.7308°	140.9081°	7.4	267	18.5	1.7	1.7	2.724	24.4	43.0	29.0	2.5	0.2	0.9	1.2	19	42	310	0.75
Niida River	E-2 a	37.6640°	140.9447°	6.8	286	54.4	8.4	25.8	2.589	12.3	9.6	14.6	15.8	25.1	22.6	0.12	19	670	5200	1.0
Ota River	F-1	37.5975°	140.9252°	7.0	302	17.7	1.2	2.3	2.664	22.1	36.5	34.3	4.1	0.9	2.1	1.0	9.5	240	1900	0.49
Lake Hayama (Mano Dam)	G-1	37.7321°	140.8127°	7.1	150	62.3	11.7	24.9	2.588	0.0	0.9	10.0	42.4	29.8	16.9	0.088	2.0	390	3000	3.3
	G-4	37.7382°	140.8035°	7.3	242	23.9	2.4	2.4	2.705	13.6	23.8	45.5	12.7	2.1	2.3	0.62	19	36	260	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.9	234	70.0	9.4	25.9	2.566	0.0	0.1	0.1	1.0	48.9	49.9	0.0050	2.0	62	520	1.3
Lake Inawashiro	J-1	37.4203°	140.1008°	7.1	285	27.2	1.7	2.4	2.796	0.5	0.7	51.2	44.6	1.0	2.0	0.26	9.5	8.2	72	N.D.(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°	7.7	223	46.1	5.5	9.2	2.697	0.0	0.1	0.2	25.2	59.3	15.2	0.048	2.0	32	230	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.9	218	20.8	1.2	1.2	2.714	0.2	2.3	72.0	22.9	0.7	1.9	0.32	4.8	2.8	21	N.D.(0.13)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.8	249	28.6	2.0	1.7	2.799	0.0	0.0	2.5	93.4	1.8	2.3	0.16	0.85	2.7	26	N.D.(0.15)

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

○ Results (aquatic organisms)

Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Abukuma River System	A-2	Harase River	2017/8/19	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.021	-	-	-	128	18	110	-		
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	25	0.017	Larva (Dragonfly larva)	-	-	-	33.9	3.9	30	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<u>Melligomphus viridicostus</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u>Sieboldius albardae</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<u>Davidius</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<u>Asiagomphus melaenops</u>										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	<u>Neocaridina</u>	191	0.043	Juvenile, Imago	-	-	-	11.8	1.8	10	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<u>Semisulcospira libertina</u>	30	0.028	Imago	-	Molluscos part	-	13.9	1.9	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	<u>Amur Minnow</u>	11	0.054	Immature fish, Mature fish	-	-	-	7.3	1.0	6.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	16	0.19	Immature fish, Mature fish	-	-	-	10.2	1.3	8.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	<u>Pale chub</u>	1	0.0044	Immature fish	-	-	-	11	N.D.(6.0)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	<u>Dark chub</u>	21	0.20	Immature fish	-	-	-	7.7	1.0	6.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<u>Oriental weatherfish</u>	19	0.098	Immature fish, Mature fish	-	-	-	9.79	0.79	9.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Noemacheilus barbatulus</i>	<u>Stone loach</u>	12	0.068	Immature fish	-	-	-	7.33	0.93	6.4	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	<u>Yamame trout</u>	8	0.15	Immature fish	-	-	-	9.63	0.93	8.7	-
				Vertebrata	Amphibia	Anura	-	-	-	5	0.0035	Larva (Tadpole)	-	-	-	95	17	78	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	<u>Wrinkled Frog</u>	10	0.052	Imago	-	-	-	17.0	2.0	15	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	<u>Tokyo Daruma pond frog</u>										
	Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	<u>Japanese Brown Frog</u>													
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	33.2	4.2	29	-	
	B-2	The main stream of the Abukuma River	2017/8/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	1	0.48	Mature fish	Obscure digesta	Viscera removed	7.45	0.95	6.5	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<u>Hemibarbus barbus</u>	3	4.3	Mature fish	Obscure digesta	Viscera removed	10.8	1.1	9.7	0.42	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	<u>Sweetfish</u>	102	3.5	Immature fish, Mature fish	-	-	25.1	3.1	22	0.13	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	<u>Small mouth bass</u>	2	2.2	Mature fish	Fish	Viscera removed	26.2	3.2	23	0.27	
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	<u>Channel catfish</u>	3	5.0	Immature fish, Mature fish	Ephoron shigae	Viscera removed	27.5	2.5	25	0.18	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	<u>Amur catfish</u>	1	1.0	Mature fish	Empty stomach	Viscera removed	24.9	2.9	22	0.33	
	B-3	Surikami River	2017/8/25	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	60.0	8.0	52	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<u>Stenopsyche marmorata</u>	197	0.056	Larva	-	-	-	32.4	4.4	28	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	88	0.046	Larva (Dragonfly larva)	-	-	-	3.9	N.D.(1.3)	3.9	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<u>Melligomphus viridicostus</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u>Sieboldius albardae</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<u>Davidius</u>										
Arthropoda				Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	12	0.0089	Larva	-	-	-	N.D.	N.D.(4.6)	N.D.(3.9)	-	
Arthropoda				Insecta	Megaloptera	Corydalidae	<i>Parachauliodes japonicus</i>	<u>Parachauliodes japonicus</u>											
Arthropoda				Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	<u>Red swamp crawfish</u>	1	0.011	Imago	-	-	-	6.5	N.D.(3.2)	6.5	-	
Vertebrata				Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	<u>Japanese fluvial sculpin</u>	7	0.067	Immature fish	-	-	-	3.1	N.D.(1.2)	3.1	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	<u>Amur Minnow</u>	16	0.13	Immature fish, Mature fish	-	-	-	12.5	1.5	11	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	10	0.33	Immature fish, Mature fish	Obscure digesta	Viscera removed	13.8	1.8	12	-		
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	<u>Dark chub</u>	12	0.068	Immature fish, Mature fish	-	-	-	7.29	0.79	6.5	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<u>Oriental weatherfish</u>	38	0.079	Immature fish, Mature fish	-	-	-	9.3	1.5	7.8	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Noemacheilus barbatulus</i>	<u>Stone loach</u>	48	0.26	Immature fish	-	-	-	5.28	0.48	4.8	-	
Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	<u>Yamame trout</u>	2	0.24	Mature fish	Stenopsyche marmorata	Viscera removed	12.4	1.4	11	-		
Vertebrata				Osteichthyes	Siluriformes	Bagridae	<i>Pseudobagrus tokiensis</i>	<u>Cut-tailed bullhead</u>	3	0.019	Immature fish	-	-	-	3.8	N.D.(2.5)	3.8	-	
Vertebrata	Amphibia	Anura	-	-	-	9	0.0092	Larva (Tadpole)	-	-	-	58.9	7.9	51	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.17	-	-	-	40.7	4.7	36	-		

*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		
Uda River	C-6	The main stream of the Uda River	2017/8/19	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0068	-	-	-	38.3	4.3	34	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	40	0.011	Larva	-	-	13	N.D.(3.2)	13	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.048	Imago	-	-	6.9	N.D.(0.83)	6.9	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	70	0.018	Juvenile,Imago	-	-	9.6	N.D.(3.7)	9.6	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	4	0.014	Juvenile	-	-	15	N.D.(2.9)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.020	Immature fish	Obscure digesta	Viscera removed	13.6	2.6	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	2	0.022	Immature fish	-	-	6.8	N.D.(2.0)	6.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	26	0.14	Immature fish	-	-	5.50	0.70	4.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	6	0.035	Immature fish	-	-	5.3	1.3	4.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	10	0.021	Immature fish,Mature fish	-	-	5.8	N.D.(2.0)	5.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	17	0.025	Immature fish,Mature fish	-	-	2.2	N.D.(1.7)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	Lefua echigonia	6	0.0065	Immature fish,Mature fish	-	-	N.D.	N.D.(6.0)	N.D.(5.1)	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	29	0.38	Immature fish,Mature fish	-	-	16.6	1.6	15	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	4	0.019	Immature fish	-	-	9.8	N.D.(2.7)	9.8	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	30	0.055	Immature fish,Mature fish	-	-	9.4	1.5	7.9	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<i>Rhinogobius nagoyae</i>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	4	0.051	Mature fish	-	-	15.8	1.8	14	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Pseudobagrus tokiensis</i>	Cut-tailed bullhead	8	0.0034	Immature fish	-	-	N.D.	N.D.(12)	N.D.(10)	-
				Vertebrata	Amphibia	Anura	-	-	Frog	5	0.0083	Larva (Tadpole)	-	-	108	17	91	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	Tokyo Daruma pond frog	6	0.035	Imago	-	-	3.2	N.D.(1.4)	3.2	-
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese Brown Frog													
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	2	0.0082	Imago	-	-	3.9	N.D.(4.4)	3.9	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	57.9	6.9	51	-	

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Mano River	D-3	The main stream of the Mano River	2017/8/22	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	3	0.013	Immature fish	-	-	6.1	N.D.(2.6)	6.1	-	
			2017/8/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	14	0.21	Immature fish	-	-	8.2	1.0	7.2	-	
		Vertebrata		Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	3	0.085	Mature fish	-	-	5.43	0.93	4.5	-		
		Vertebrata		Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	122	1.7	Immature fish,Mature fish	-	-	26.8	2.8	24	0.11		
	D-4b	The main stream of the Mano River	2017/8/22	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0065	-	-	-	172	22	150	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	25	0.0072	Larva	-	-	-	37	N.D.(5.0)	37	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	23	0.0024	Larva (Dragonfly larva)	-	-	-	16	N.D.(22)	16	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	<i>Sympetrum</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>	15	0.0060	Larva	-	-	-	15	N.D.(8.1)	15	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	11	0.0057	Juvenile,Imago	-	-	-	22	N.D.(6.9)	22	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	251	0.061	Juvenile,Imago	-	-	-	20.5	2.5	18	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	2	0.047	Juvenile	-	-	-	29.2	3.2	26	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	3	0.83	Immature fish,Mature fish	Obscure digesta	Viscera removed	65.9	6.9	59	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	8	0.028	Immature fish,Mature fish	-	-	10.3	3.1	7.2	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.036	Immature fish	Obscure digesta	Viscera removed	17.6	2.6	15	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	2	0.0068	Immature fish	-	-	18	N.D.(13)	18	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	3	0.0096	Immature fish	-	-	15	N.D.(3.9)	15	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	5	0.011	Mature fish	-	-	23.3	4.3	19	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	16	0.11	Immature fish	-	-	106	12	94	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.040	Immature fish	Fish,Freshwater shrimp	Viscera removed	28.8	2.8	26	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	5	0.0095	Immature fish	-	-	21	N.D.(5.0)	21	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<u><i>Rhinogobius nagoyae</i></u>	16	0.029	Immature fish,Mature fish	-	-	19.6	2.6	17	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	<i>Rhinogobius kurodai</i>										
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Pseudobagrus tokiensis</i>	Cut-tailed bullhead	1	0.0076	Immature fish	-	-	9.9	N.D.(6.7)	9.9	-	
				Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lampetra reissneri</i>	Far eastern brook lamprey	2	0.0037	Ammocoetes larva	-	-	N.D.	N.D.(9.1)	N.D.(10)	-	
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	1	0.31	Imago	-	-	12.6	1.6	11	-	
Vertebrata	Amphibia	Anura	Hylidae	<i>Hyla japonica</i>	Japanese tree frog	6	0.0047	Imago	-	-	8.5	N.D.(7.9)	8.5	-					
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	61.9	7.9	54	-		
D-5	The main stream of the Mano River	2017/8/22	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	17	0.14	Immature fish	-	-	25.1	4.1	21	-		
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.0089	Immature fish	-	-	23	N.D.(6.3)	23	-		

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Niida River	E-2b	The main stream of the Niida River	2017/8/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	357	47	310	-			
				Algae/plant	Zygnemataphyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.12	-	-	-	12.4	1.4	11	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	41	0.0099	Larva	-	-	-	104	13	91	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	9	0.0030	Larva (Dragonfly larva)	-	-	-	28	N.D.(14)	28	-	
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Gomphus postocularis</i>	Gomphus postocularis											
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer											
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.047	Imago	-	-	-	54.3	6.3	48	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	4	0.0045	Imago	-	-	-	34	N.D.(12)	34	-	
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	594	0.060	Juvenile,Imago	-	-	-	30.4	3.4	27	-	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	11	0.18	Juvenile	-	-	-	52.7	5.7	47	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	0.0078	Immature fish	Obscure digesta	Viscera removed	19	N.D.(6.3)	19	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	7	0.022	Immature fish	-	-	-	23.9	3.9	20	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	3	0.031	Immature fish	-	-	-	22.1	2.1	20	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus melanogaster</i>	Acheilognathus melanogaster	13	0.019	Immature fish,Mature fish	-	-	-	44.4	5.4	39	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	5	0.0067	Immature fish	-	-	-	18	N.D.(12)	18	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	0.0090	Immature fish	-	-	-	12	N.D.(5.2)	12	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	44	0.071	Immature fish,Mature fish	-	-	-	16.6	2.6	14	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	10	0.16	Immature fish,Mature fish	-	-	-	126	16	110	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	25	0.040	Immature fish,Mature fish	-	-	-	41.0	5.0	36	-	
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	Rhinogobius nagoyae															
Vertebrata	Amphibia	Anura	-	-	Frog	4	0.0045	Larva (Tadpole)	-	-	-	328	48	280	-					
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	1	0.013	Imago	-	-	-	63.7	6.7	57	-					
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	145	15	130	-			
E-3	The main stream of the Niida River	2017/8/22	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	5	0.87	Immature fish,Mature fish	Shrimp	Viscera removed	8.15	0.95	7.2	-			
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	37	1.1	Immature fish,Mature fish	-	-	-	37.4	5.4	32	0.22		

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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	2017/8/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0057	-	-	-	196	16	180	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	46	0.010	Larva	-	-	-	200	20	180	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	20	0.011	Larva (Dragonfly larva)	-	-	-	123	13	110	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u><i>Anotogaster sieboldii</i></u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<u><i>Melligomphus viridicostus</i></u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	6	0.011	Imago	-	-	-	414	44	370	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	92	0.014	Juvenile,Imago	-	-	-	238	28	210	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.13	Immature fish	Common prawn	Viscera removed	-	584	64	520	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.0031	Immature fish	-	-	-	174	24	150	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	6	0.028	Immature fish	-	-	-	223	23	200	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	4	0.0037	Immature fish,Mature fish	-	-	-	184	24	160	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	<i>Lefua echigonia</i>	19	0.017	Immature fish,Mature fish	-	-	-	79.0	9.0	70	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u><i>Rhinogobius fluviatilis</i></u>	6	0.021	Immature fish,Mature fish	-	-	-	493	63	430	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<i>Rhinogobius nagoyae</i>										
	Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lampetra reissneri</i>	Far eastern brook lamprey	2	0.0049	Ammocoetes larva	-	-	-	33	N.D.(6.6)	33	-			
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	-	-	135	15	120	-		
		F-3	The main stream of the Ota River	2017/8/20	Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.0074	Imago	-	Molluscos part	206	26	180	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	11	0.16	Immature fish,Mature fish	-	-	94	11	83	-	
	F-5	The main stream of the Ota River	2017/8/20	Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.011	Imago	-	-	87.4	9.4	78	-	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	2	0.037	Juvenile	-	-	168	18	150	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.16	Immature fish	Empty stomach	Viscera removed	309	39	270	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	20	0.066	Immature fish	-	-	193	23	170	-	
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	1	0.13	Imago	-	-	32.4	5.4	27	-	

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Hayama	G-1 G-2 G-3	In the lake	2017/8/21	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.032	-	-	-	1.5	N.D.(1.4)	1.5	-	
			2017/8/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	1	1.2	Mature fish	Obscure digesta	Viscera removed	90.9	8.9	82	1.1	
			2017/8/21	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.093	Immature fish	Empty stomach	Viscera removed	72	13	59	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	7	0.47	Immature fish,Mature fish	Caddis-fly, Midge,Nais sp., Polyzoan dormant bud, Common Pond Snail, Mont mayfly	Viscera removed	39.3	4.3	35	-	
	2017/8/20	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	3.6	Mature fish	Empty stomach	Viscera removed	465	55	410	0.61			
	G-4	Inflowing rivers	2017/8/21	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.026	-	-	-	840	100	740	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	21	0.0060	Larva (Dragonfly larva)	-	-	22	N.D.(7.6)	22	-	
				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>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	37	0.0029	Juvenile,Imago	-	-	21	N.D.(16)	21	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	2	0.0051	Immature fish	-	-	8.2	N.D.(7.7)	8.2	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.83	Immature fish,Mature fish	Rhinogobius flumineus	Viscera removed	113	13	100	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	10	0.0085	Immature fish	-	-	14	N.D.(5.3)	14	-	
	Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	77.0	8.0	69	-			
	Lake Akimoto	H-1 H-2 H-3	In the lake	2017/8/25	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	21	1.1	Imago	-	-	24.3	3.3	21	7.3
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	1.2	Mature fish	Obscure digesta	Viscera removed	32.2	3.2	29	0.71
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	20	3.4	Mature fish	Obscure digesta	Viscera removed	44.8	5.8	39	1.2
Vertebrata					Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	2	0.86	Mature fish	Obscure digesta	Viscera removed	40.4	5.4	35	-	
Vertebrata					Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	47	0.19	Mature fish	-	-	17.1	3.1	14	-	
Vertebrata					Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	4	1.4	Mature fish	Japanese smelt	Viscera removed	37.5	3.5	34	0.32	
Vertebrata					Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	2	0.43	Immature fish	Japanese smelt	Viscera removed	31.2	4.2	27	-	
Vertebrata		Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	8	2.1	Immature fish,Mature fish	Japanese smelt,Shrimp	Viscera removed	33.3	3.3	30	0.95				
H-3		Inflowing rivers	2017/8/25	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.27	-	-	-	47.9	5.9	42	-	
H-4		Within the lake and rivers in the vicinity	2017/8/25	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.014	-	-	-	5.7	2.6	3.1	-	
				Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	-	0.29	-	-	-	3.57	0.37	3.2	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	23	0.020	Larva (Dragonfly larva)	-	-	4.4	N.D.(2.3)	4.4	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
	Arthropoda			Insecta	Odonata	Gomphidae	<i>Lanthus fujiacus</i>	<i>Lanthus fujiacus</i>	30	0.014	Imago	-	Molluscous part	7.8	N.D.(3.6)	7.8	-		
	Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	5	0.012	Immature fish	-	-	5.0	N.D.(4.0)	5.0	-		

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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	2017/8/24	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	3.54	0.34	3.2	-		
	J-1 (south lakeside)	Within the lake and around the Oninuma	2017/8/24	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.016	-	-	-	N.D.	N.D.(2.2)	N.D.(1.8)	-		
				Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.32	-	-	-	-	1.2	N.D.(0.28)	1.2	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Ephthalma elegans</i>	<i>Ephthalma elegans</i>	25	0.022	Larva (Dragonfly larva)	-	-	-	21	N.D.(2.4)	21	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	-	-	-	-	-	-	-	-	-	-	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	183	0.072	Juvenile, Imago	-	-	-	6.1	N.D.(0.75)	6.1	-	
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia chinensis laeta</i>	Mud-snail	26	0.075	Imago	-	-	Molluscos part	7.1	1.1	6.0	-	
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	19	0.010	Imago	-	-	Molluscos part	N.D.	N.D.(4.1)	N.D.(3.4)	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	1	0.0062	Mature fish	-	-	-	N.D.	N.D.(6.6)	N.D.(5.1)	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	2	0.14	Mature fish	-	-	-	8.3	1.4	6.9	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	1	0.0085	Mature fish	-	-	-	N.D.	N.D.(4.6)	N.D.(4.4)	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	182	1.3	Immature fish, Mature fish	-	-	-	0.82	N.D.(0.29)	0.82	0.25	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	7	0.21	Immature fish	Spiders, Worm, Stink bug	Viscera removed	-	1.5	N.D.(0.43)	1.5	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	20	0.73	Immature fish	Amphipod, Baetidae, Worm, Midge, Spiders, Diptera, Woodlouse, Grasshopper, Stink bug, Ant, etc.	Viscera removed	-	1.1	N.D.(0.36)	1.1	-	
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	0.011	Immature fish	-	-	-	8.0	N.D.(3.3)	8.0	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	9	0.14	Immature fish, Mature fish	-	-	-	2.3	N.D.(0.56)	2.3	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	<i>Rhinogobius kurodai</i>	7	0.019	Mature fish	-	-	-	N.D.	N.D.(2.9)	N.D.(2.4)	-	
Vertebrata	Amphibia	Anura	-	-	Frog	110	0.081	Larva (Tadpole)	-	-	-	19.4	2.4	17	-					
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	16	0.14	Imago	-	-	-	21.4	2.4	19	-					
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	Tokyo Daruma pond frog															
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	<i>Cynops pyrrhogaster</i>	5	0.029	Imago	-	-	-	N.D.	N.D.(2.6)	N.D.(2.2)	-					

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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	2017/8/21	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pseudopleuronectes herzensteini</i>	Yellow striped flounder	14	1.3	Immature fish	Ragworm	Viscera removed	N.D.	N.D.(0.55)	N.D.(0.32)	N.D.(0.018)	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	2.2	Mature fish	Anchovy	Viscera removed	0.51	N.D.(0.39)	0.51	N.D.(0.015)	
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Eynniss japonica</i>	Crimson sea-bream	6	0.68	Immature fish	Shrimp	Viscera removed	0.35	N.D.(0.27)	0.35	-	
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2017/8/19	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	15	N.D.(2.3)	15	-	
			2017/8/23	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	1.6	-	-	-	0.36	N.D.(0.059)	0.36	-	
			2017/8/22	Algae/plant	Chlorophyceae	Ulvales	Ulvaceae	<i>Ulva pertusa</i>	<i>Ulva pertusa</i>	-	0.30	-	-	-	2.41	0.31	2.1	-	
			2017/8/19	Arthropoda	Malacostraca	Mysida	Mysidae	<i>Mysidae</i>	Mysidae	-	0.30	Imago	-	-	-	2.11	0.41	1.7	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	57	0.039	Juvenile, Imago	-	-	-	2.4	N.D.(1.3)	2.4	-
				Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	1	0.15	Imago	-	-	-	1.1	N.D.(0.73)	1.1	-
			2017/8/22	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	12	0.17	Imago	-	-	Molluscous part	1.7	N.D.(0.43)	1.7	-
				Mollusca	Bivalvia	Veneroidea	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	30	0.14	Imago	-	-	Molluscous part	1.7	N.D.(0.65)	1.7	-
			2017/8/19	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Platichthys stellatus</i>	Starry flounder	5	0.012	Immature fish	-	-	-	N.D.	N.D.(3.6)	N.D.(4.4)	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	3	0.15	Immature fish	Crab, Shrimp	Viscera removed	1.7	N.D.(0.49)	1.7	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Favonigobius gymnauchen</i>	<u>Favonigobius gymnauchen</u>	5	0.020	Immature fish	-	-	-	3.0	N.D.(2.5)	3.0	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	<u>Yellowfin Goby</u>										
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Chelon affinis</i>	Chelon affinis	3	0.033	Immature fish	-	-	-	11	N.D.(1.5)	11	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	121	0.68	Immature fish	-	-	-	9.2	1.3	7.9	-
Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Liza haematocheilus</i>	Haarder	11	0.050	Immature fish	-	-	-	7.0	N.D.(1.3)	7.0	-				
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2017/8/19	Echinodermata	Asteroidea	Forcipulata	Asteriidae	<i>Asterias amurensis</i>	Northern Pacific seastar	9	2.0	Imago	-	-	-	N.D.	N.D.(0.28)	N.D.(0.28)	0.54
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	12	2.6	Immature fish, Mature fish	Shrimp, Crab	Viscera removed	1.7	N.D.(0.31)	1.7	0.021	
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	2	0.43	Mature fish	Crab	Viscera removed	1.1	N.D.(0.29)	1.1	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	1	0.14	Mature fish	Ragworm	Viscera removed	0.76	N.D.(0.51)	0.76	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	8	2.1	Immature fish, Mature fish	Ragworm	Viscera removed	1.1	N.D.(0.34)	1.1	0.016	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	12	3.4	Immature fish, Mature fish	Shellfish	Viscera removed	2.49	0.49	2.0	N.D.(0.018)	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	3.4	Immature fish, Mature fish	Anchovy	Viscera removed	1.1	N.D.(0.34)	1.1	N.D.(0.017)	
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	1	1.2	Mature fish	Shrimp	Viscera removed	1.0	N.D.(0.30)	1.0	N.D.(0.021)	
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure Puffer	8	1.9	Immature fish	Crab, Shrimp, Shellfish	Viscera removed	1.2	N.D.(0.32)	1.2	0.035	
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zenopsis nebulosa</i>	Dory	1	0.12	Immature fish	Empty stomach	Viscera removed	0.66	N.D.(0.59)	0.66	-	
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John Dory	7	3.3	Immature fish, Mature fish	Fish	Viscera removed	0.39	N.D.(0.29)	0.39	N.D.(0.023)	
				Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Common Skete	4	2.8	Immature fish	Shrimp	Viscera removed	3.61	0.51	3.1	0.12	
				Vertebrata	Chondrichthyes	Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	4	3.9	Immature fish	Shellfish, Crab	Viscera removed	4.28	0.48	3.8	0.019	
	M-4	Hisanohama Coastal areas	2017/8/19	Algae/plant	Phaeophyceae	Fucales	Sargassaceae	<i>Sargassum horneri</i>	Sargassum horneri	-	0.22	-	-	-	0.56	N.D.(0.33)	0.56	-	
Vertebrata				Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos agrammus</i>	Hexagrammos agrammus	1	0.044	Immature fish	Crab	Viscera removed	1.2	N.D.(1.2)	1.2	-		
Vertebrata				Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	1	0.068	Immature fish	Shrimp	Viscera removed	1.6	N.D.(0.90)	1.6	-		

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