○ Results (water)

Locations				2023 December Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.6	1.5	3.3	11.8	20.7	0.10	1.6	3	2.4	N.D.(0.0014)	0.0068	0.00097
	A-1(Bottom layer)	37.6210°	140.5218°	7.6	1.7	3.4	12.2	20.9	0.10	1.6	4	2.4	N.D.(0.0013)	0.0054	-
	A-2	37.5673°	140.3946°	7.4	0.6	1.8	12.3	12.0	0.06	0.9	<1	0.6	N.D.(0.0015)	0.0037	-
	B-2	37.8121°	140.5058°	7.7	1.1	3.2	13.2	19.2	0.10	1.5	5	3.9	N.D.(0.0015)	0.032	-
	B-3	37.8182°	140.4679°	7.6	0.7	2.7	12.5	10.5	0.06	1.2	2	1.4	N.D.(0.0014)	0.0038	-
Uda River	C-6	37.7764°	140.8877°	7.7	<0.5	2.5	12.9	11.7	0.06	1.1	<1	1.5	N.D.(0.0014)	0.0098	0.00068
Mano River	D-4 a	37.7308°	140.9081°	7.3	<0.5	1.9	11.4	14.3	0.07	0.8	<1	0.5	N.D.(0.0014)	0.0020	0.00096
Niida River	E-2 a	37.6640°	140.9447°	7.3	0.5	2.5	12.2	8.2	0.05	1.0	<1	1.2	N.D.(0.0012)	0.017	0.0013
Ota River	F-1	37.5975°	140.9252°	7.2	0.8	3.6	11.3	7.4	0.04	1.7	1	1.5	N.D.(0.0016)	0.077	0.0037
Ukedo River	N-1	37.4998°	140.9835°	7.2	0.5	1.5	11.3	9.0	0.05	0.8	<1	0.6	N.D.(0.0017)	0.069	0.0026
	N-2	37.5070°	140.9456°	7.4	<0.5	2.0	11.4	7.9	0.04	0.9	1	0.6	N.D.(0.0018)	0.075	-
	N-3	37.4754°	140.9598°	7.4	<0.5	1.1	12.5	7.7	0.04	0.6	1	0.6	N.D.(0.0017)	0.031	-
Tomioka River	O-1	37.3547°	140.9780°	7.4	0.6	1.6	11.4	8.7	0.05	0.8	<1	0.5	N.D.(0.0014)	0.0082	0.0027
	O-2	37.3624°	140.9612°	7.5	0.8	1.5	11.6	8.2	0.04	0.8	<1	0.6	N.D.(0.0016)	0.013	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.3	0.6	3.7	9.1	9.0	0.05	1.8	3	3.4	N.D.(0.0015)	0.026	-
	G-1(Bottom layer)	37.7321°	140.8127°	7.3	0.7	3.3	8.8	8.9	0.05	1.8	4	3.5	N.D.(0.0014)	0.030	0.00091
	G-2(Surface layer)	37.7267°	140.8223°	7.3	0.7	3.5	8.8	8.9	0.05	1.9	4	3.9	N.D.(0.0014)	0.034	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.3	0.8	3.7	9.0	8.9	0.05	1.9	5	4.5	N.D.(0.0015)	0.042	-
	G-4	37.7382°	140.8035°	7.5	0.5	1.9	12.4	8.7	0.05	1.0	<1	0.4	N.D.(0.0012)	0.0035	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.1	0.6	2.7	10.3	5.6	0.04	1.3	3	2.8	N.D.(0.0014)	0.0048	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.1	0.9	3.1	10.3	5.8	0.03	1.4	3	3.0	N.D.(0.0014)	0.0033	0.0012
	H-2(Surface layer)	37.6616°	140.1226°	7.2	0.6	2.9	10.8	5.6	0.03	1.3	2	2.4	N.D.(0.0014)	0.0047	-
	H-2(Bottom layer)	37.6616°	140.1226°	7.1	0.7	2.9	11.1	5.7	0.03	1.2	2	2.3	N.D.(0.0013)	0.0039	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.9	<0.5	1.3	11.1	12.0	0.06	0.7	<1	0.4	N.D.(0.0015)	0.0043	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.8	<0.5	1.3	11.1	12.1	0.06	0.7	<1	0.4	N.D.(0.0013)	0.0043	0.00076
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	1.8	8.1	4680	33.68	1.4	<1	0.7	N.D.(0.0015)	0.0037	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.1	0.7	1.4	8.3	4760	33.71	1.1	2	1.1	N.D.(0.0016)	0.0046	0.00067
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	0.6	1.5	9.2	4780	32.80	1.1	1	0.9	N.D.(0.0015)	0.0043	0.00093
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	1.2	7.7	4910	34.15	0.9	<1	0.4	N.D.(0.0016)	0.0011	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	<0.5	1.4	7.6	4880	34.38	0.9	<1	0.6	N.D.(0.0015)	0.0023	0.00072

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 December Survey																
										Grain size distribution								Cs-134	Cs-137	Sr-90
		Latitude	Longitude	pH	Redox potential $E_{N.H.E}$ (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm^3)	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)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
Abukuma River System	A-1	37.6210°	140.5218°	7.3	173	27.2	3.1	7.7	2.710	0.2	2.1	44.2	32.6	13.9	7.0	0.23	4.8	2.6	160	N.D.(0.11)
	A-2	37.5673°	140.3946°	7.2	507	19.6	1.5	1.9	2.740	29.9	28.3	29.3	4.9	3.6	4.0	1.1	9.5	1.5	70	-
	B-2	37.8121°	140.5058°	7.3	392	25.2	1.5	1.7	2.690	0.8	4.0	76.3	14.7	0.7	3.5	0.41	4.8	1.5	83	-
	B-3	37.8182°	140.4679°	7.5	497	21.7	0.9	0.8	2.650	25.1	40.9	26.1	3.0	2.1	2.8	1.2	9.5	0.35	26	-
Uda River	C-6	37.7764°	140.8877°	7.7	518	17.6	0.9	0.4	2.690	29.6	32.0	24.0	4.1	5.1	5.2	1.2	9.5	0.69	40	0.20
Mano River	D-4 a	37.7308°	140.9081°	7.5	471	19.1	2.2	3.0	2.710	30.3	33.4	15.3	12.8	5.2	3.0	1.2	9.5	2.3	130	0.83
Niida River	E-2 a	37.6640°	140.9447°	7.3	493	17.3	0.9	1.0	2.670	12.9	30.7	49.1	4.2	0.4	2.7	0.76	4.8	3.0	160	N.D.(0.14)
Ota River	F-1	37.5975°	140.9252°	7.0	426	21.1	1.1	1.7	2.670	16.1	22.6	40.7	9.8	5.6	5.2	0.63	4.8	4.6	230	0.31
Ukedo River	N-1	37.4998°	140.9835°	6.9	490	21.6	0.7	0.6	2.650	4.6	25.8	62.1	4.5	0.4	2.6	0.63	9.5	26	1400	N.D.(0.12)
	N-2	37.5070°	140.9456°	7.3	525	22.2	0.8	0.7	2.640	4.9	19.9	60.6	9.3	2.6	2.7	0.56	9.5	53	2900	-
	N-3	37.4754°	140.9598°	7.3	470	23.2	0.9	0.7	2.650	0.9	20.8	63.2	9.9	1.7	3.5	0.55	9.5	22	1100	-
Tomioka River	O-1	37.3547°	140.9780°	7.4	469	17.7	1.4	1.7	2.670	3.7	34.9	51.6	5.5	1.1	3.2	0.70	9.5	5.9	270	0.14
	O-2	37.3624°	140.9612°	7.3	503	20.0	1.4	0.8	2.680	10.5	33.0	45.0	7.3	1.0	3.2	0.74	9.5	3.8	220	-
Lake Hayama (Mano Dam)	G-1	37.7321°	140.8127°	7.2	179	47.1	12.4	35.0	2.560	0.0	0.2	1.9	6.3	67.2	24.4	0.022	2.0	36	1800	2.1
	G-2	37.7267°	140.8223°	7.0	231	32.4	5.5	14.0	2.600	8.5	5.5	12.6	22.4	39.2	11.8	0.072	19	18	880	-
	G-4	37.7382°	140.8035°	7.5	475	19.9	2.1	1.8	2.680	8.4	32.7	46.1	6.2	2.8	3.8	0.71	9.5	5.1	190	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.8	121	53.3	9.7	35.0	2.530	0.0	0.0	0.0	0.6	50.7	48.7	0.0053	0.85	13	760	1.2
	H-2	37.6616°	140.1226°	6.6	141	53.9	14.0	51.0	2.460	0.0	0.0	0.0	0.1	43.0	56.9	0.0036	0.85	3.5	260	-
Lake Inawashiro	J-1	37.4203°	140.1008°	6.0	417	29.0	2.4	5.7	2.680	0.1	0.9	16.9	68.5	8.6	5.0	0.15	4.8	1.2	63	0.14
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.6	180	30.1	4.0	5.7	2.700	0.0	0.0	0.4	44.2	43.5	11.9	0.066	4.8	2.3	110	N.D.(0.11)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.6	156	30.5	4.5	4.7	2.690	0.4	0.4	1.1	70.2	18.8	9.1	0.12	9.5	2.2	120	N.D.(0.12)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.6	313	23.3	1.9	1.2	2.760	0.6	0.5	2.2	90.0	2.4	4.3	0.15	9.5	0.32	23	N.D.(0.11)

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	2023/12/4	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0064	-	-	-	88	N.D.(12)	88	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Dobsonfly	38	0.025	Larva	-	-	7.0	N.D.(1.3)	7.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	30	0.15	Immature fish	-	-	3.7	N.D.(0.38)	3.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Gnathopogon elongatus elongatus*	Field gudgeon	60	0.20	Immature fish, Mature fish	-	-	2.1	N.D.(0.32)	2.1	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.25	-	-	-	3.6	N.D.(0.33)	3.6	-
	A-2	Harase River	2023/12/4	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.014	-	-	-	110	N.D.(16)	110	-
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	*Ephemera strigata*	Mont mayfly	88	0.0051	Larva	-	-	41	N.D.(8.0)	41	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Rhynchocypris lagowskii steindachneri*	Amur minnow	18	0.034	Immature fish, Mature fish	-	-	3.7	N.D.(1.3)	3.7	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	32	N.D.(1.5)	32	-
	B-2	The main stream of the Abukuma River	2023/12/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	4	0.87	Mature fish	Obscure digesta	Viscera removed	9.9	N.D.(1.1)	9.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius* sp.	Silver crucian carp	3	0.23	Mature fish	Obscure digesta	Viscera removed	3.7	N.D.(0.78)	3.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Barbel steed	2	3.1	Mature fish	*Eriocheir japonica*	Viscera removed	11	N.D.(1.1)	11	0.39
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu dolomieu*	Smallmouth bass	1	0.19	Immature fish	Empty stomach	Viscera removed	4.1	N.D.(0.53)	4.1	-
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	*Ictalurus punctatus*	American catfish	2	3.0	Mature fish	*Eriocheir japonica*	Viscera removed	7.8	N.D.(1.3)	7.8	0.21
	B-3	Surikami River	2023/12/1	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.037	-	-	-	38	N.D.(4.4)	38	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	171	0.038	Larva	-	-	8.7	N.D.(1.6)	8.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	5	0.017	Immature fish	-	-	3.3	N.D.(1.7)	3.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Barbel steed	2	0.020	Immature fish	-	-	2.5	N.D.(1.2)	2.5	-
				Vertebrata	Amphibia	Anura	Lithobates	*Lithobates catesbeianus*	American bullfrog	1	0.29	Imago	-	-	12	N.D.(1.7)	12	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	6.2	N.D.(0.87)	6.2	-

*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	2023/12/2	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.012	-	-	-	33	N.D.(2.5)	33	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	130	0.020	Larva	-	-	16	N.D.(2.1)	16	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	1	0.049	Mature fish	Obscure digesta	Viscera removed	3.4	N.D.(1.2)	3.4	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	1.2	N.D.(0.23)	1.2	-

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*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	
Mano River	D-4 b	The main stream of the Mano River	2023/12/2	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.016	-	-	-	37	N.D.(7.9)	37	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	49	0.011	Larva	-	-	16	N.D.(3.6)	16	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	2	0.17	Mature fish	Obscure digesta	Viscera removed	5.9	N.D.(0.42)	5.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius* sp.	Silver crucian carp	2	0.049	Immature fish, Mature fish	-	-	3.3	N.D.(0.92)	3.3	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.2	Mature fish	Empty stomach	Viscera removed	9.0	N.D.(0.54)	9.0	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	43	N.D.(1.5)	43	-

*1: Organisms were collected in or around the targeted water areas.

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*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	
Niida River	E-2 b	The main stream of the Niida River	2023/12/2	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.025	-	-	-	140	N.D.(7.0)	140	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria tibialis*	Stonefly	135	0.0071	Larva	-	-	4.3	N.D.(3.8)	4.3	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Paragnetina* sp.	Stonefly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	150	0.025	Larva	-	-	51	N.D.(6.6)	51	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.45	Mature fish	Empty stomach	Viscera removed	53.4	1.4	52	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.2	Mature fish	Empty stomach	Viscera removed	32.3	1.3	31	0.46
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	76.9	1.9	75	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ota River	F-1	The main stream of the Ota River	2023/12/2	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.021	-	-	-	250	N.D.(11)	250	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Oyamia lugubris*	Stonefly	80	0.0081	Larva	-	-	11	N.D.(3.8)	11	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria tibialis*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Neoperla* sp.	Stonefly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	85	0.013	Larva	-	-	96	N.D.(15)	96	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	3	0.20	Immature fish	Empty stomach	Viscera removed	36	N.D.(1.8)	36	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	1	0.093	Mature fish	Obscure digesta	Viscera removed	83	N.D.(3.4)	83	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	25	N.D.(1.5)	25	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ukedo River	N-1	The main stream of the Ukedo River	2023/12/4	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.011	-	-	-	1230	30	1200	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	65	0.0096	Larva	-	-	470	N.D.(20)	470	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	30	2.1	Immature fish, Mature fish	Obscure digesta	Viscera removed	152.6	2.6	150	1.0
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	4.2	Mature fish	Obscure digesta	Viscera removed	101.5	1.5	100	2.0
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.4	Mature fish	Empty stomach	Viscera removed	344.8	4.8	340	1.3
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	100	N.D.(1.7)	100	-
	N-2	The main stream of the Ukedo River	2023/12/3	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.010	-	-	-	815	15	800	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Dragonfly	165	0.050	Larva (Dragonfly larva)	-	-	95	N.D.(4.7)	95	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Nihonogomphus viridis*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Stylogomphus suzukii*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Melligomphus viridicostus*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius nanus*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius* sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Shaogomphus postocularis*	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Dragonfly									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	8	0.49	Mature fish	Obscure digesta	Viscera removed	283.9	3.9	280	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Candidia temminckii*	Dark chub	17	0.24	Immature fish, Mature fish	-	-	132.5	2.5	130	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius* sp.	Silver crucian carp	3	0.19	Immature fish, Mature fish	Obscure digesta	Viscera removed	151.8	1.8	150	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.18	Mature fish	Empty stomach	Viscera removed	375.7	5.7	370	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.88	Mature fish	Empty stomach	Viscera removed	508.2	8.2	500	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	428.2	8.2	420	-
	N-3	The main stream of the Takase River	2023/12/3	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.012	-	-	-	280	N.D.(15)	280	-
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	*Ephemera strigata*	Mont mayfly	145	0.0057	Larva	-	-	64	N.D.(17)	64	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria uenoi*	Stonefly	116	0.0051	Larva	-	-	N.D.	N.D.(4.4)	N.D.(4.0)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria tibialis*	Stonefly									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Opsariichthys platypus*	Pale break	53	0.29	Immature fish, Mature fish	-	-	49	N.D.(1.1)	49	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	274.3	4.3	270	-

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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	2023/12/3	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0066	-	-	-	150	N.D.(19)	150	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria uenoi*	Stonefly	112	0.0094	Larva	-	-	N.D.	N.D.(3.6)	N.D.(3.3)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Oyamia lugubris*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria tibialis*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Neoperla geniculata*	Stonefly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	245	0.049	Larva	-	-	49	N.D.(4.7)	49	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	20	0.25	Immature fish, Mature fish	Obscure digesta	Viscera removed	19	N.D.(1.4)	19	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Masu salmon	2	0.034	Immature fish	-	-	16	N.D.(1.4)	16	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	22	N.D.(1.6)	22	-
	O-2	The main stream of the Tomioka River	2023/12/3	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0036	-	-	-	620	N.D.(38)	620	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria uenoi*	Stonefly	97	0.0068	Larva	-	-	N.D.	N.D.(4.4)	N.D.(3.7)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Oyamia lugubris*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria tibialis*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Paragnetina* sp.	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Neoperla* sp.	Stonefly									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	25	0.39	Immature fish, Mature fish	-	-	24	N.D.(1.3)	24	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Masu salmon	6	0.18	Immature fish	Obscure digesta	Viscera removed	16	N.D.(1.4)	16	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	28	N.D.(1.5)	28	-

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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	2023/12/5	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.018	-	-	-	22	N.D.(1.8)	22	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu dolomieu*	Smallmouth bass	9	2.4	Immature fish, Mature fish	*Hypomesus nipponensis*	Viscera removed	50	N.D.(1.6)	50	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.3	Mature fish	Empty stomach	Viscera removed	122.4	2.4	120	-
	G-4	Inflowing rivers	2023/12/4	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0075	-	-	-	61	N.D.(11)	61	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Caddisfly	221	0.024	Larva	-	-	17	N.D.(2.2)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	38	0.19	Immature fish	-	-	7.1	N.D.(0.98)	7.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Masu salmon	7	0.17	Immature fish	Aquatic insect	Viscera removed	14	N.D.(1.9)	14	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.23	-	-	-	21	N.D.(1.4)	21	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Akimoto	H-1 H-2 H-3	In the lake	2023/12/1	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.030	-	-	-	N.D.	N.D.(1.3)	N.D.(1.3)	-
			2023/12/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudaspius hakonensis*	Japanese dace	10	2.5	Mature fish	Obscure digesta	Viscera removed	23	N.D.(1.2)	23	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus nigricans*	Largemouth bass	2	0.40	Immature fish	*Palaemon paucidens*	Viscera removed	28	N.D.(2.2)	28	-
	H-3	Inflowing rivers	2023/12/1	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.021	-	-	-	10	N.D.(1.9)	10	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Xanthoneuria* sp.	Stonefly	53	0.0050	Larva	-	-	N.D.	N.D.(6.3)	N.D.(5.1)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Kamimuria quadrata*	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Calineuria* sp.	Stonefly									
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Masu salmon	10	0.17	Immature fish	Aquatic insect	Viscera removed	5.7	N.D.(0.80)	5.7	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.20	-	-	-	2.9	N.D.(0.31)	2.9	-

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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	2023/12/2	Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	2.0	N.D.(0.27)	2.0	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2023/12/2	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.033	-	-	-	N.D.	N.D.(1.1)	N.D.(1.1)	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	*Semisulcospira libertina*	Freshwater snail	16	0.014	Imago	-	Molluscous part	N.D.	N.D.(2.5)	N.D.(2.4)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Opsariichthys platypus*	Pale break	22	0.083	Immature fish	-	-	6.1	N.D.(1.3)	6.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Rhodeus ocellatus ocellatus*	Rosy bitterling	115	0.093	Mature fish	-	-	6.5	N.D.(0.94)	6.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudorasbora parva*	Stone moroko	28	0.023	Immature fish, Mature fish	-	-	2.2	N.D.(1.5)	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	2023/12/22	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	*Lepidotrigla microptera*	Redwing searobin	3	0.69	Mature fish	Crustacea	Viscera removed	0.57	N.D.(0.30)	0.57	-
				Vertebrata	Chondrichthyes	Rajiformes	Rajidae	*Okamejei kenojei*	Ocellate spot skate	2	2.0	Immature fish	Crustacea	Viscera removed	0.45	N.D.(0.21)	0.45	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2023/12/3	Arthropoda	Malacostraca	Decapoda	Varunidae	*Hemigrapsus* sp.	Japanese shore crab	79	0.079	Juvenile,Imago	-	-	0.98	N.D.(0.50)	0.98	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Tridentiger obscurus*	Dusky tripletooth goby	52	0.039	Immature fish, Mature fish	-	-	N.D.	N.D.(0.81)	N.D.(0.82)	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gobiidae	Gobiidae									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Favonigobius gymnauchen*	Sharp-nosed sand goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius flavimanus*	Yellowfin Goby									

*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	
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2023/12/9	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	*Lepidotrigla microptera*	Redwing searobin	3	0.71	Mature fish	Crustacea	Viscera removed	1.0	N.D.(0.29)	1.0	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pseudopleuronectes yokohamae*	Marbled flounder	2	0.56	Immature fish, Mature fish	Empty stomach	Viscera removed	0.53	N.D.(0.25)	0.53	-

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