○ Results (water)

Locations				2017 June 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°	7.7	1.1	4.4	9.0	17.7	0.10	2.1	5	3.2	0.0018	0.014	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.6	1.5	4.8	9.0	18.1	0.10	2.3	6	3.5	0.0033	0.018	-
	A-2	37.5673°	140.3946°	7.6	0.7	3.2	9.8	12.3	0.07	1.4	3	1.8	0.0019	0.013	-
	B-2	37.8121°	140.5058°	7.7	0.7	3.7	9.8	18.1	0.10	1.6	5	3.0	0.0031	0.023	-
	B-3	37.8182°	140.4679°	7.8	<0.5	2.5	10.5	8.2	0.05	0.9	2	1.3	N.D.(0.0011)	0.0049	-
Uda River	C-6	37.7764°	140.8877°	7.4	<0.5	2.5	9.8	11.0	0.10	0.9	1	1.0	0.0019	0.0093	0.00085
Mano River	D-4 a	37.7308°	140.9081°	7.3	0.5	2.4	10.5	11.4	0.05	0.8	2	1.6	0.0021	0.012	0.0010
Niida River	E-2 a	37.6640°	140.9447°	7.0	0.8	2.4	9.5	7.8	0.05	0.9	2	2.0	0.0044	0.029	0.0015
Ota River	F-1	37.5975°	140.9252°	7.2	0.6	2.7	10.5	5.1	0.03	1.0	2	1.0	0.018	0.13	0.0037
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.7	1.5	4.6	10.8	6.9	0.04	1.7	6	4.5	0.0054	0.033	-
	G-1(Bottom layer)	37.7321°	140.8127°	7.5	0.8	3.9	9.5	7.2	0.04	1.6	4	3.5	0.0048	0.033	0.00090
	G-4	37.7382°	140.8035°	7.6	<0.5	2.1	9.4	7.9	0.04	1.2	1	0.8	0.0034	0.023	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.4	0.7	2.4	9.3	3.7	0.03	1.2	1	1.3	0.0016	0.010	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.1	0.8	2.5	10.3	3.8	0.03	1.2	1	1.3	N.D.(0.0012)	0.0069	0.0013
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.8	0.5	1.5	10.4	11.0	0.06	0.9	<1	0.6	0.0012	0.0090	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.9	0.5	1.3	10.3	11.1	0.06	0.6	<1	0.4	N.D.(0.0012)	0.0081	0.00059
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.2	1.1	3.4	8.9	4600	30.13	1.6	2	2.3	N.D.(0.00095)	0.0060	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.0	<0.5	2.2	8.5	4970	33.38	1.2	4	2.5	0.0013	0.0091	0.0011
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	1.1	4.5	7.5	4570	29.87	1.9	20	9.7	0.014	0.093	0.00090
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	1.8	9.2	4860	33.15	1.0	2	0.5	N.D.(0.0012)	0.0044	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.6	1.6	9.0	5030	33.52	1.0	2	0.9	N.D.(0.0011)	0.0051	0.00079

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

○ Results (sediments)

Locations				2017 June 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°	7.2	279	37.0	3.2	3.6	2.672	10.0	29.5	38.4	5.7	6.6	9.8	0.69	9.5	44	310	0.13
	A-2	37.5673°	140.3946°	7.0	256	24.9	1.7	1.6	2.745	5.8	24.5	54.5	11.6	1.8	1.8	0.57	4.8	25	200	-
	B-2	37.8121°	140.5058°	7.5	292	15.8	1.0	1.1	2.768	37.7	27.0	31.7	3.2	0.4		1.4	9.5	5.8	35	-
	B-3	37.8182°	140.4679°	7.3	263	18.8	1.2	1.3	2.693	32.3	46.8	18.7	1.3	0.9		1.5	9.5	12	95	-
Uda River	C-6	37.7764°	140.8877°	7.7	298	18.0	0.9	1.0	2.750	30.6	40.8	27.1	1.2	0.3		1.4	9.5	23	160	0.29
Mano River	D-4 a	37.7308°	140.9081°	7.5	283	19.0	1.7	3.1	2.717	26.4	35.5	33.8	3.0	0.2	1.1	1.1	9.5	41	290	0.66
Niida River	E-2 a	37.6640°	140.9447°	7.4	307	48.2	6.8	22.4	2.611	15.9	14.0	18.0	18.7	17.7	15.7	0.23	19	740	5200	0.82
Ota River	F-1	37.5975°	140.9252°	7.2	292	21.1	1.1	1.7	2.661	25.6	22.8	39.0	7.6	1.1	3.9	0.82	9.5	270	2000	0.44
Lake Hayama (Mano Dam)	G-1	37.7321°	140.8127°	7.3	234	54.6	10.0	17.1	2.626	0.0	0.1	8.2	42.5	34.7	14.5	0.080	2.0	410	2900	3.5
	G-4	37.7382°	140.8035°	7.6	250	42.6	5.1	8.5	2.699	0.1	0.1	9.0	25.1	53.7	12.0	0.044	4.8	76	570	-
Lake Akimoto	H-1	37.6575°	140.1264°	7.0	109	66.3	8.2	24.3	2.578	0.0	0.0	0.1	0.5	50.6	48.8	0.0053	2.0	59	420	1.4
Lake Inawashiro	J-1	37.4203°	140.1008°	7.1	287	30.1	2.0	2.4	2.716	0.2	1.5	46.1	49.1	0.7	2.4	0.24	4.8	28	220	0.17
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.4	-23	37.5	4.6	7.4	2.689	0.0	0.1	0.4	29.3	55.7	14.5	0.050	2.0	28	190	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.6	227	21.3	1.3	2.2	2.717	0.1	0.3	47.4	44.7	3.1	4.4	0.25	4.8	7.2	63	N.D.(0.12)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	229	26.8	1.8	1.8	2.837	0.6	0.4	4.3	88.4	2.4	3.9	0.14	9.5	8.5	54	N.D.(0.13)

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

○ Results (aquatic organisms)

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Abukuma River System	A-1	The main stream of the Abukuma River	2017/6/27	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	10	2.7	Immature fish,Mature fish	Fish,Shrimp	Viscera removed	10.0	1.3	8.7	0.19
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	*Ictalurus punctatus*	Channel catfish	5	3.4	Immature fish	Ephoron shigae	Viscera removed	22.0	3.0	19	0.20
	A-2	Harase River	2017/6/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.010	-	-	-	247	27	220	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	78	0.046	Larva (Dragonfly larva)	-	-	11.5	1.5	10	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	*Onychogomphus viridicostus*	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Asiagomphus melaenops									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	*Procambarus clarkii*	Red swamp crawfish	5	0.053	Juvenile,Imago	-	-	14.1	2.1	12	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Neocaridina sp.*	Neocaridina	253	0.063	Juvenile,Imago	-	-	13.8	1.8	12	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	*Semisulcospira libertina*	Semisulcospira libertina	30	0.023	Imago	-	Molluscous part	11.0	2.3	8.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	80	0.23	Immature fish,Mature fish	-	-	8.33	0.83	7.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	10	0.055	Immature fish	-	-	22.1	3.1	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus*	Pseudogobio esocinus	2	0.035	Immature fish,Mature fish	-	-	10.5	1.4	9.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Nipponocypris temminckii*	Dark chub	10	0.038	Immature fish	-	-	5.9	N.D.(1.2)	5.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	24	0.084	Immature fish,Mature fish	-	-	7.57	0.87	6.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Noemacheilus barbatulus*	Stone loach	19	0.21	Immature fish	-	-	8.3	1.0	7.3	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	5	0.057	Immature fish	-	-	12.5	1.5	11	-
				Vertebrata	Amphibia	Anura	-	-	Frog	130	0.071	Larva (Tadpole)	-	-	134	14	120	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana rugosa*	Wrinkled Frog	3	0.026	Imago	-	-	22.9	2.9	20	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana porosa porosa*	Tokyo Daruma pond frog									
				Vertebrata	Amphibia	Anura	Ranidae	*Rana japonica*	Japanese Brown Frog									
				Vertebrata	Amphibia	Caudata	Salamandridae	*Cynops pyrrhogaster*	Cynops pyrrhogaster	7	0.055	Imago	-	-	6.9	1.0	5.9	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.16	-	-	-	50.5	5.5	45	-
	B-2	The main stream of the Abukuma River	2017/6/9	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	10	3.0	Mature fish	Empty stomach	Viscera removed	9.18	0.88	8.3	0.18
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	4.5	Mature fish	Obscure digesta	Viscera removed	15.1	2.1	13	0.33
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	4	7.5	Mature fish	Empty stomach	Viscera removed	109	14	95	0.42
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	2	2.5	Mature fish	Fish	Viscera removed	23.8	2.8	21	0.25
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	3	4.3	Mature fish	Empty stomach	Viscera removed	40.1	5.1	35	0.18
	B-3	Surikami River	2017/6/21	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	91	14	77	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	173	0.071	Larva	-	-	20.3	2.3	18	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Onychogomphus viridicostus*	Melligomphus viridicostus	40	0.014	Larva (Dragonfly larva)	-	-	N.D.	N.D.(2.7)	N.D.(2.5)	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius sp.*	Davidius									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	24	0.014	Larva	-	-	N.D.	N.D.(2.5)	N.D.(2.6)	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	*Procambarus clarkii*	Red swamp crawfish	3	0.064	Imago	-	-	11.1	1.4	9.7	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	19	0.20	Immature fish	-	-	5.00	0.80	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	109	0.71	Immature fish,Mature fish	-	-	6.93	0.73	6.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	4	0.039	Immature fish	-	-	5.2	1.0	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Nipponocypris temminckii*	Dark chub	3	0.0098	Immature fish	-	-	N.D.	N.D.(4.0)	N.D.(3.2)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	24	0.095	Immature fish,Mature fish	-	-	9.2	1.4	7.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Noemacheilus barbatulus*	Stone loach	24	0.28	Immature fish	-	-	5.60	0.50	5.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Plecoglossus altivelis*	Sweetfish	9	0.20	Immature fish,Mature fish	-	-	11.7	1.7	10	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	21	0.35	Immature fish	-	-	3.88	0.58	3.3	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	9.5	1.2	8.3	-

*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	2017/6/17	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0093	-	-	-	64.4	8.4	56	-
				Arthropoda	Insecta	Ephemeroptera	Siphlonuridae	*Siphlonuridae*	Siphlonuridae	604	0.036	Larva	-	-	17.0	2.0	15	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	69	0.0057	Larva	-	-	37	N.D.(7.6)	37	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii	10	0.0026	Larva (Dragonfly larva)	-	-	N.D.	N.D.(9.7)	N.D.(8.1)	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius sp.*	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Asiagomphus melaenops									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	5	0.0041	Larva	-	-	N.D.	N.D.(7.6)	N.D.(6.5)	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	95	0.016	Juvenile,Imago	-	-	4.5	N.D.(2.4)	4.5	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	4	0.055	Juvenile	-	-	10.5	1.1	9.4	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	7	2.4	Immature fish,Mature fish	Japanese mitten Crab,Shrimp	Viscera removed	28.2	4.2	24	0.077
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Zacco platypus*	Pale chub	1	0.015	Immature fish	-	-	13	N.D.(2.4)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Nipponocypris temminckii*	Dark chub	1	0.017	Immature fish	-	-	8.1	N.D.(2.4)	8.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Cobitis biwae*	Cobitis biwae	7	0.027	Mature fish	-	-	8.4	1.8	6.6	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Plecoglossus altivelis*	Sweetfish	261	1.9	Immature fish,Mature fish	-	-	18.1	2.1	16	0.12
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Seema	1	0.34	Immature fish	Empty stomach	Viscera removed	1.2	N.D.(0.37)	1.2	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Gymnogobius urotaenia*	Goby	2	0.010	Immature fish	-	-	13	N.D.(3.1)	13	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	23	0.070	Mature fish	-	-	24.6	2.6	22	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius sp. CB*	Rhinogobius nagoyae									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Tridentiger brevispinis*	Dusky tripletooth goby	2	0.017	Mature fish	-	-	9.3	N.D.(2.1)	9.3	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	38.4	3.4	35	-

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*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

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*8: Activity concentrations include counting errors, but the details are omitted here.

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Mano River	D-3	The main stream of the Mano River	2017/6/14	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	6	1.8	Immature fish,Mature fish	Crab	Viscera removed	44.2	6.2	38	0.094
	D-4b	The main stream of the Mano River	2017/6/14	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	110	13	97	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	*Spirogyra sp.*	Spirogyra	-	0.34	-	-	-	36.5	4.5	32	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	160	0.036	Larva	-	-	61.3	7.3	54	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	45	0.016	Larva (Dragonfly larva)	-	-	17.9	2.9	15	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	*Nihonogomphus viridis*	Nihonogomphus viridis									
				Arthropoda	Insecta	Odonata	Gomphidae	*Onychogomphus viridicostus*	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius sp.*	Davidius									
				Arthropoda	Insecta	Odonata	Aeshnidae	*Boyeria maclachlani*	Boyeria maclachlani									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	38	0.023	Larva	-	-	9.7	N.D.(1.6)	9.7	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	*Procambarus clarkii*	Red swamp crawfish	2	0.020	Imago	-	-	64.8	7.8	57	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	10	0.0089	Imago	-	-	18.0	4.0	14	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	109	0.092	Juvenile,Imago	-	-	16.5	2.5	14	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	4	0.14	Juvenile	-	-	20.3	2.3	18	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	4	0.60	Immature fish,Mature fish	Fish	Viscera removed	58.8	6.8	52	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	2	0.10	Immature fish	-	-	35.6	4.6	31	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	45	0.082	Immature fish,Mature fish	-	-	14.9	1.9	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	14	0.11	Immature fish	-	-	27.9	3.9	24	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Zacco platypus*	Pale chub	4	0.070	Immature fish,Mature fish	-	-	24.5	2.5	22	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Gnathopogon elongatus elongatus*	Gnathopogon elongatus elongatus	2	0.015	Immature fish,Mature fish	-	-	29.7	3.7	26	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Cobitis biwae*	Cobitis biwae	2	0.0032	Mature fish	-	-	N.D.	N.D.(11)	N.D.(9.1)	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Plecoglossus altivelis*	Sweetfish	27	0.25	Immature fish,Mature fish	-	-	40.8	5.8	35	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Lepomis macrochirus*	Bluegill	1	0.026	Immature fish	-	-	19.9	2.9	17	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	5	0.022	Mature fish	-	-	51.3	6.3	45	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius sp. CB*	Rhinogobius nagoyae	25	0.066	Mature fish	-	-	30.9	3.9	27	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Tridentiger brevispinis*	Dusky tripletooth goby	1	0.0091	Mature fish	-	-	15	N.D.(4.4)	15	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	*Pseudobagrus tokiensis*	Cut-tailed bullhead	2	0.14	Mature fish	Stenopsyche marmorata, Terrestrial insect	Viscera removed	18.1	2.1	16	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.10	Immature fish	Obscure digesta	Viscera removed	35.9	3.9	32	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	*Lampetra reissneri*	Far eastern brook lamprey	2	0.0020	Ammocoetes larva	-	-	24	N.D.(14)	24	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	46.0	6.0	40	-
	D-5	The main stream of the Mano River	2017/6/14	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	1	0.14	Mature fish	Obscure digesta	Viscera removed	28.3	3.3	25	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	1	0.12	Immature fish	Amur Minnow	Viscera removed	50.3	7.3	43	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.26	Mature fish	Freshwater shrimp	Viscera removed	43.4	6.4	37	-

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Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Niida River	E-2b	The main stream of the Niida River	2017/6/18	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	160	20	140	-
				Algae/plant	-	-	-	*Bryophyta*	Bryophyte	-	0.29	-	-	-	137	17	120	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	234	0.032	Larva	-	-	160	20	140	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	27	0.0059	Larva (Dragonfly larva)	-	-	89.9	9.9	80	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius sp.*	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Asiagomphus melaenops									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	16	0.0081	Larva	-	-	24.2	4.2	20	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	*Procambarus clarkii*	Red swamp crawfish	1	0.021	Imago	-	-	42.7	4.7	38	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	43	0.037	Imago	-	-	31.6	3.6	28	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	219	0.074	Juvenile,Imago	-	-	58.6	8.6	50	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	10	0.15	Juvenile	-	-	43.1	5.1	38	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	3	1.2	Immature fish,Mature fish	Japanese mitten Crab	Viscera removed	134	14	120	0.23
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	3	0.074	Immature fish	-	-	46.5	5.5	41	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	55	0.44	Immature fish	-	-	28.9	2.9	26	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Zacco platypus*	Pale chub	7	0.035	Immature fish	-	-	30.7	3.7	27	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus*	Pseudogobio esocinus	9	0.19	Immature fish,Mature fish	-	-	32.7	3.7	29	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Sarcocheilichthys variegatus variegatus*	Sarcocheilichthys variegatus variegatus	9	0.080	Immature fish,Mature fish	-	-	28.3	3.3	25	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	15	0.85	Immature fish,Mature fish	Obscure digesta	Viscera removed	40.7	5.7	35	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	0.067	Immature fish	Obscure digesta	Viscera removed	16.8	1.8	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Gnathopogon elongatus elongatus*	Gnathopogon elongatus elongatus	24	0.082	Immature fish,Mature fish	-	-	39.6	5.6	34	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	2	0.033	Mature fish	-	-	39.9	3.9	36	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Plecoglossus altivelis*	Sweetfish	27	0.21	Immature fish	-	-	128	18	110	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Seema	1	0.15	Immature fish	Empty stomach	Viscera removed	39.5	5.5	34	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	37	0.16	Mature fish	-	-	60.0	6.0	54	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius sp. CB*	Rhinogobius nagoyae									
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	6	4.4	Immature fish,Mature fish	Fish	Viscera removed	285	35	250	0.72
				Vertebrata	Amphibia	Anura	Ranidae	*Rana catesbeiana*	American Bullfrog	2	0.78	Imago	-	-	50.2	5.2	45	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	182	22	160	-

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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	2017/6/15	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.013	-	-	-	1260	160	1100	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	*Spirogyra sp.*	Spirogyra	-	0.34	-	-	-	17.9	1.9	16	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	*Isonychia japonica*	Isonychia japonica	89	0.0081	Larva	-	-	202	32	170	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	123	0.047	Larva	-	-	249	29	220	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	39	0.014	Larva (Dragonfly larva)	-	-	238	28	210	-
				Arthropoda	Insecta	Odonata	Gomphidae	*Stylogomphus suzukii*	Stylogomphus suzukii									
				Arthropoda	Insecta	Odonata	Gomphidae	*Onychogomphus viridicostus*	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	*Planaeschna milnei*	Planaeschna milnei									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	24	0.0076	Larva	-	-	63.0	8.0	55	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Parachauliodes japonicus*	Parachauliodes japonicus									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	18	0.039	Imago	-	-	231	31	200	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	145	0.047	Juvenile,Imago	-	-	173	23	150	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	2	0.33	Immature fish,Mature fish	Grasshopper, Freshwater shrimp	Viscera removed	638	78	560	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	2	0.051	Immature fish	-	-	493	63	430	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	11	0.050	Immature fish	-	-	295	35	260	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Zacco platypus*	Pale chub	2	0.033	Immature fish	-	-	274	34	240	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	3	0.092	Immature fish,Mature fish	-	-	263	33	230	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Cobitis biwae*	Cobitis biwae	10	0.012	Immature fish,Mature fish	-	-	283	33	250	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Lefua echigonia*	Lefua echigonia	9	0.015	Immature fish,Mature fish	-	-	148	18	130	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	7	0.026	Immature fish,Mature fish	-	-	549	69	480	-
				Vertebrata	Amphibia	Anura	-	-	Frog	100	0.033	Larva (Tadpole)	-	-	80	11	69	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	216	26	190	-
	F-3	The main stream of the Ota River	2017/6/15	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	2	0.81	Mature fish	Shrimp	Viscera removed	1140	140	1000	-
	F-5	The main stream of the Ota River	2017/6/15	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	6	0.58	Immature fish,Mature fish	Japanese mitten Crab	Viscera removed	206	26	180	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Plecoglossus altivelis*	Sweetfish	191	1.3	Immature fish	-	-	99	12	87	0.22

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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	2017/6/16	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.018	-	-	-	30.3	3.3	27	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	4	2.9	Mature fish	Bluegill	Viscera removed	218	28	190	1.5
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Lepomis macrochirus*	Bluegill	80	1.4	Immature fish	-	-	44.8	4.8	40	0.58
	G-4	Inflowing rivers	2017/6/16	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0042	-	-	-	284	34	250	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	25	0.0062	Larva	-	-	70.6	8.6	62	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	12	0.0024	Larva (Dragonfly larva)	-	-	27	N.D.(14)	27	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Davidius sp.*	Davidius									
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	4	0.0037	Larva	-	-	14	N.D.(12)	14	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	26	0.0047	Juvenile,Imago	-	-	9.8	N.D.(6.9)	9.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	2	0.0021	Immature fish	-	-	19	N.D.(16)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	23	0.063	Immature fish	-	-	33.3	4.3	29	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	1	0.011	Mature fish	-	-	36.0	5.0	31	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Hypomesus nipponensis*	Japanese smelt	30	0.031	Immature fish	-	-	41.9	5.9	36	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	10	0.035	Immature fish	-	-	38.1	5.1	33	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	1	1.1	Mature fish	Japanese smelt	Viscera removed	453	53	400	1.4
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Lepomis macrochirus*	Bluegill	2	0.0035	Immature fish	-	-	29	N.D.(26)	29	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius flumineus*	Rhinogobius flumineus	24	0.011	Immature fish	-	-	9.3	N.D.(5.2)	9.3	-
				Vertebrata	Amphibia	Anura	-	-	Frog	49	0.013	Larva (Tadpole)	-	-	282	32	250	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	59.4	8.4	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	
Lake Akimoto	H-1 H-2 H-3	In the lake	2017/6/20	Arthropoda	Malacostraca	Decapoda	Astacidae	*Pacifastacus leniusculus trowbridgii*	Signal crayfish	14	1.1	Imago	-	-	33.4	3.4	30	7.2
				Arthropoda	Malacostraca	Decapoda	Atyidae	*Paratya improvisa*	Freshwater shrimp	81	0.0089	Juvenile,Imago	-	-	17	N.D.(5.2)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	16	2.7	Mature fish	Obscure digesta	Viscera removed	41.9	4.9	37	0.80
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	5	0.78	Mature fish	Obscure digesta	Viscera removed	36.1	4.1	32	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	2.9	Mature fish	Empty stomach	Viscera removed	13.8	1.8	12	0.82
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	2	1.7	Mature fish	Empty stomach	Viscera removed	16.5	1.5	15	1.4
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Hypomesus nipponensis*	Japanese smelt	126	0.24	Immature fish,Mature fish	-	-	29.4	3.4	26	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	5	1.5	Mature fish	Japanese smelt	Viscera removed	55.2	6.2	49	0.38
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Seema	2	0.34	Immature fish	Bee	Viscera removed	20.3	2.3	18	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	9	3.6	Immature fish,Mature fish	Japanese smelt, Signal crayfish	Viscera removed	73.6	7.6	66	1.1
	H-3	Inflowing rivers	2017/6/20	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0077	-	-	-	46.4	5.4	41	-
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	*Drunella basalis*	Drunella basalis	150	0.011	Larva	-	-	22	N.D.(2.9)	22	-
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	*Drunella kohnoi*	Drunella kohnoi									
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	*Drunella trispina*	Drunella trispina									
				Arthropoda	Insecta	Plecoptera	Perlidae	*Acroneuria sp.*	Acroneuria	161	0.041	Larva	-	-	N.D.	N.D.(1.1)	N.D.(1.1)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	*Calineuria sp.*	Calineuria									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche sauteri*	Parastenopsyche sauteri	60	0.029	Larva	-	-	14.5	2.5	12	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata									
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	46	0.16	Immature fish	-	-	7.43	0.73	6.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	3	0.051	Immature fish	-	-	10.2	1.2	9.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	6	0.030	Immature fish	-	-	8.4	N.D.(1.4)	8.4	-
				Vertebrata	Amphibia	Anura	Rhacophoridae	*Buergeria buergeri*	Kajika frog	4	0.016	Imago	-	-	25.8	4.8	21	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	9.31	0.91	8.4	-
	H-4	Within the lake and rivers in the vicinity	2017/6/20	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.018	-	-	-	N.D.	N.D.(1.9)	N.D.(1.7)	-
			2017/6/19	Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii	22	0.021	Larva (Dragonfly larva)	-	-	12.8	1.8	11	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	*Semisulcospira libertina*	Semisulcospira libertina	30	0.024	Imago	-	Molluscous part	11	N.D.(2.1)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	12	0.030	Immature fish,Mature fish	-	-	4.5	N.D.(1.6)	4.5	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	2	0.079	Immature fish	-	-	3.0	N.D.(1.4)	3.0	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana rugosa*	Wrinkled Frog	4	0.044	Imago	-	-	17.1	2.1	15	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana ornativentris*	Montane brown frog									
				Vertebrata	Amphibia	Caudata	Salamandridae	*Cynops pyrrhogaster*	Cynops pyrrhogaster	2	0.0080	Imago	-	-	4.8	N.D.(4.0)	4.8	-

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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	2017/6/19	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	35	3.6	Mature fish	Obscure digesta	Viscera removed	34.9	4.9	30	0.25
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	6	1.5	Mature fish	Obscure digesta	Viscera removed	30.9	3.9	27	0.45
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	6	2.9	Mature fish	Japanese smelt, Common prawn, Baetidae, Ephemerellidae	Viscera removed	55.2	7.2	48	0.11
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	*Channa argus*	Snakehead	2	2.2	Immature fish	Pseudogobio esocinus,Frog	Viscera removed	30.4	3.4	27	0.41
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.92	Mature fish	Pseudogobio esocinus	Viscera removed	29.4	3.4	26	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	25.2	3.2	22	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2017/6/19	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.022	-	-	-	N.D.	N.D.(1.7)	N.D.(1.5)	-
				Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	*Nuphar japonicum*	Cow lily	-	0.33	-	-	-	1.4	N.D.(0.27)	1.4	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	133	0.047	Juvenile,Imago	-	-	7.1	N.D.(1.6)	7.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	499	0.31	Juvenile,Imago	-	-	8.6	1.1	7.5	-
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Bellamya chinensis laeta*	Mud-snail	16	0.060	Imago	-	Molluscous part	8.5	1.3	7.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	10	2.0	Mature fish	Obscure digesta	Viscera removed	31.5	3.5	28	0.27
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Zacco platypus*	Pale chub	17	0.24	Immature fish,Mature fish	-	-	8.76	0.96	7.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus*	Pseudogobio esocinus	60	0.68	Immature fish,Mature fish	-	-	9.28	0.78	8.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	80	0.43	Immature fish	-	-	17.4	2.4	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	5	1.5	Mature fish	Obscure digesta	Viscera removed	13.7	1.7	12	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	12	1.5	Immature fish,Mature fish	Obscure digesta	Viscera removed	20.0	2.0	18	0.38
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	12	0.036	Immature fish	-	-	1.0	N.D.(1.1)	1.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	2	0.73	Immature fish,Mature fish	Japanese smelt	Viscera removed	49.5	6.5	43	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Seema	3	0.21	Immature fish	Goby, Stictochironomus pictulus (Pupa stage)	Viscera removed	0.92	N.D.(0.44)	0.92	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	1	1.6	Mature fish	Obscure digesta	Viscera removed	61.1	7.1	54	0.27
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Gymnogobius urotaenia*	Goby	7	0.085	Immature fish	-	-	18.3	2.3	16	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	0.90	Mature fish	Obscure digesta	Viscera removed	36.5	4.5	32	-
				Vertebrata	Amphibia	Anura	-	-	Frog	69	0.039	Larva (Tadpole)	-	-	31.9	3.9	28	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana rugosa*	Wrinkled Frog	8	0.061	Imago	-	-	3.2	N.D.(0.91)	3.2	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana porosa porosa*	Tokyo Daruma pond frog									
				Vertebrata	Amphibia	Caudata	Salamandridae	*Cynops pyrrhogaster*	Cynops pyrrhogaster	18	0.080	Imago	-	-	1.1	N.D.(0.77)	1.1	-

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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	2017/6/17	Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	*Hexagrammos otakii*	Fat greenling	2	0.29	Immature fish,Mature fish	Shrimp	Viscera removed	1.63	0.43	1.2	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	*Sebastes cheni*	Rockfish	1	0.064	Immature fish	Shrimp	Viscera removed	1.1	N.D.(1.2)	1.1	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Kareius bicoloratus*	Stone flounder	1	0.53	Immature fish	Shellfish	Viscera removed	0.47	N.D.(0.37)	0.47	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	*Paralichthys olivaceus*	Bastard halibut	2	0.69	Immature fish	Anchovy	Viscera removed	0.39	N.D.(0.27)	0.39	-
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	*Lateolabrax japonicus*	Japanese sea bass	2	1.9	Immature fish,Mature fish	Fish	Viscera removed	0.89	N.D.(0.33)	0.89	N.D.(0.015)
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius flavimanus*	Yellowfin Goby	27	0.42	Immature fish,Mature fish	-	-	2.36	0.26	2.1	-
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2017/6/21	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.045	-	-	-	3.1	N.D.(1.2)	3.1	-
				Algae/plant	Chlorophyceae	Ulvales	Ulvaceae	*Ulva pertusa*	Ulva pertusa	-	0.34	-	-	-	3.20	0.40	2.8	-
				Annelida	Polychaeta	Phyllodocida	Nereididae	*Hediste sp.*	Hediste	453	0.17	Imago	-	-	14.8	1.8	13	-
				Annelida	Polychaeta	Spionida	Cirratulidae	*Cirratulida*	Polychaeta									
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Hemigrapsus sp.*	Hemigrapsus	123	0.10	Juvenile,Imago	-	-	1.7	N.D.(0.57)	1.7	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	1	0.078	Juvenile	-	-	11.7	1.7	10	-
				Arthropoda	Malacostraca	Decapoda	Portunidae	*Portunus trituberculatus*	Japanese blue crab	18	0.23	Juvenile,Imago	-	-	3.06	0.36	2.7	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	*Platycephalus sp.*	Flathead	1	0.011	Immature fish	-	-	N.D.	N.D.(2.9)	N.D.(2.6)	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Kareius bicoloratus*	Stone flounder	36	0.071	Immature fish	-	-	1.9	N.D.(0.69)	1.9	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pleuronectidae*	Pleuronectidae									
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Platichthys stellatus*	Starry flounder									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius lactipes*	Whitelimbed goby	10	0.026	Immature fish	-	-	3.1	N.D.(1.7)	3.1	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Tridentiger obscurus*	Dusky tripletooth goby									
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	*Takifugu niphobles*	Takifugu niphobles	2	0.23	Mature fish	Crab,Shellfish	Viscera removed	1.9	N.D.(0.49)	1.9	-
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2017/6/28	Mollusca	Cephalopoda	Decapodiformes	Sepiidae	*Sepia andreana*	Sepia andreana	14	0.40	Juvenile,Imago	-	-	N.D.	N.D.(0.33)	N.D.(0.36)	-
				Mollusca	Cephalopoda	Decapodiformes	Loliginidae	*Loliolus japonica*	Japanese squid	10	0.25	Imago	-	-	N.D.	N.D.(0.33)	N.D.(0.31)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	*Hexagrammos otakii*	Fat greenling	1	0.47	Mature fish	Shrimp,Crab	Viscera removed	2.11	0.41	1.7	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	*Lepidotrigla microptera*	Searobin	7	1.4	Immature fish,Mature fish	Shrimp	Viscera removed	1.2	N.D.(0.37)	1.2	0.018
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Kareius bicoloratus*	Stone flounder	2	1.5	Immature fish,Mature fish	Shellfish	Viscera removed	1.9	N.D.(0.38)	1.9	0.017
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pleuronichthys japonicus*	Finespotted flounder	1	0.16	Mature fish	Empty stomach	Viscera removed	0.50	N.D.(0.48)	0.50	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Microstomus achne*	Slime flounder	2	1.2	Mature fish	Empty stomach	Viscera removed	1.3	N.D.(0.43)	1.3	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pseudopleuronectes herzensteini*	Yellow striped flounder	3	1.8	Mature fish	Ragworm	Viscera removed	1.89	0.39	1.5	0.026
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pleuronectes yokohamae*	Marbled sole	2	1.5	Mature fish	Ragworm	Viscera removed	4.33	0.53	3.8	0.15
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Eopsetta grigorjewi*	Shotted halibut	3	0.87	Immature fish	Shrimp	Viscera removed	2.29	0.29	2.0	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	*Paralichthys olivaceus*	Bastard halibut	3	3.8	Mature fish	Anchovy	Viscera removed	0.68	N.D.(0.33)	0.68	N.D.(0.016)
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	*Lateolabrax japonicus*	Japanese sea bass	1	3.9	Mature fish	Fish	Viscera removed	2.79	0.39	2.4	0.044
				Vertebrata	Chondrichthyes	Rajiformes	Rajidae	*Okamejei kenojei*	Common Skete	3	2.4	Immature fish	Shrimp	Viscera removed	5.86	0.56	5.3	0.15
	M-4	Hisanohama Coastal areas	2017/6/28	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	*Eisenia bicyclis*	Eisenia bicyclis	-	0.33	-	-	-	0.48	N.D.(0.29)	0.48	-
				Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	*Haliotis sp.*	Abalone	4	0.54	Imago	-	Molluscous part	N.D.	N.D.(0.38)	N.D.(0.40)	-
				Echinodermata	Echinoidea	Echinoida	Strongylocentrotidae	*Strongylocentrotus nudus*	Northern sea urchin	6	0.83	Imago	-	-	1.58	0.28	1.3	-

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