

○ Results (water)

Locations				2016 October 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°	7.5	1.5	3.4	10.1	17.5	0.10	1.4	4	2.1	0.0016	0.0080	0.0010
	A-1(Bottom layer)	37.6210°	140.5218°	7.5	1.4	3.4	10.2	17.6	0.09	1.4	3	2.5	0.0073	0.042	-
	A-2	37.5673°	140.3946°	7.7	0.9	3.1	10.6	10.1	0.06	1.3	4	2.8	0.0054	0.029	-
	B-1	37.7843°	140.4924°	7.9	1.0	3.0	11.6	18.6	0.10	1.4	5	2.9	0.0038	0.023	-
	B-2	37.8121°	140.5058°	7.8	0.8	3.0	10.9	15.9	0.09	1.3	4	2.7	0.0016	0.0090	-
	B-3	37.8182°	140.4679°	7.7	0.7	3.5	10.2	8.3	0.04	1.5	3	3.3	0.0013	0.0065	-
Uda River	C-1	37.7953°	140.7459°	7.5	<0.5	1.9	10.9	12.0	0.06	0.8	1	0.9	0.0020	0.010	-
	C-2	37.7718°	140.7290°	7.3	<0.5	4.1	9.8	9.1	0.05	1.5	12	4.5	0.0053	0.034	-
	C-3	37.7792°	140.8040°	7.5	<0.5	2.2	10.2	8.9	0.05	0.9	2	1.9	0.0043	0.023	-
	C-4	37.7687°	140.8443°	7.6	<0.5	1.7	10.7	7.9	0.05	0.7	<1	0.8	0.0015	0.0074	0.00086
	C-5	37.7646°	140.8603°	7.7	<0.5	1.7	10.4	8.2	0.05	0.7	<1	0.7	0.0014	0.0071	-
	C-6	37.7764°	140.8877°	7.9	<0.5	1.9	10.6	9.4	0.05	0.8	1	0.8	N.D.(0.0016)	0.0080	-
Mano River	D-1	37.7331°	140.9254°	7.7	<0.5	2.4	11.7	9.3	0.05	1.2	<1	0.8	0.0020	0.012	0.0010
	D-2	37.7095°	140.9566°	7.5	0.5	2.8	10.2	11.3	0.06	1.3	1	1.6	0.0018	0.010	-
	D-3	37.7051°	140.9623°	7.3	0.5	2.5	11.0	11.9	0.06	1.1	2	1.4	0.0019	0.011	-
	D-4 a	37.7308°	140.9081°	7.5	<0.5	2.3	10.2	9.2	0.05	1.0	<1	0.9	0.0025	0.014	-
	D-4 b	37.7312°	140.9096°	7.6	<0.5	2.4	10.7	9.1	0.05	1.0	<1	0.9	0.0025	0.014	-
	D-5	37.7214°	140.8889°	7.6	<0.5	2.6	10.5	8.2	0.05	1.2	<1	1.2	0.0050	0.026	-
Niida River	E-1	37.6609°	140.9115°	7.4	<0.5	2.4	10.8	6.5	0.04	0.9	2	1.3	0.0053	0.031	0.0017
	E-2 a	37.6640°	140.9447°	7.5	<0.5	2.0	11.1	6.7	0.04	0.8	2	1.2	0.0059	0.031	-
	E-2 b	37.6635°	140.9452°	7.7	<0.5	2.1	10.6	6.7	0.04	0.9	1	1.2	0.0035	0.021	-
	E-3	37.6444°	141.0018°	7.7	0.6	2.2	10.7	8.8	0.05	0.9	2	1.4	0.0065	0.032	-
	E-4	37.6485°	140.9630°	7.7	0.6	2.2	10.5	7.0	0.04	0.9	1	1.2	0.0061	0.034	-
	E-5	37.6652°	140.9169°	7.9	0.5	2.1	10.8	6.4	0.04	0.9	1	1.3	0.0047	0.027	-
Ota River	F-1	37.5975°	140.9252°	7.4	0.5	2.3	10.5	4.8	0.03	0.9	1	0.9	0.046	0.25	-
	F-2	37.6016°	140.9423°	7.2	<0.5	2.1	10.4	5.9	0.04	0.8	1	0.7	0.023	0.12	0.0032
	F-3	37.6045°	140.9636°	7.2	<0.5	2.3	10.1	6.0	0.04	0.8	<1	0.7	0.019	0.11	-
	F-4	37.6070°	140.9720°	6.7	<0.5	1.6	8.9	7.2	0.04	0.6	<1	0.6	0.016	0.090	-
	F-5	37.6022°	140.9868°	7.0	0.6	2.0	10.1	7.7	0.04	0.8	<1	1.0	0.015	0.079	-
	F-6	37.5953°	141.0123°	7.0	0.6	2.9	10.8	33.7	0.17	1.2	<1	1.7	0.018	0.10	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.4	1.0	3.9	10.1	7.0	0.04	1.9	2	2.3	0.0057	0.032	-
	G-1(Bottom layer)	37.7321°	140.8127°	7.4	0.8	4.1	10.0	6.5	0.04	1.7	3	2.3	0.0048	0.028	0.00096
	G-3(Surface layer)	37.7302°	140.8307°	7.4	0.6	3.6	10.0	6.5	0.04	1.7	2	1.9	0.0034	0.023	-
	G-3(Bottom layer)	37.7302°	140.8307°	7.3	0.6	3.7	8.4	6.6	0.04	1.6	2	2.4	0.0048	0.035	-
	G-5(Surface layer)	37.7341°	140.8088°	7.5	0.7	3.9	9.8	6.5	0.04	1.7	2	2.3	0.0040	0.027	-
	G-5(Bottom layer)	37.7341°	140.8088°	7.5	1.3	4.3	10.0	6.5	0.04	1.8	2	2.4	0.0045	0.022	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.5	0.9	4.1	9.2	5.6	0.03	1.8	2	1.6	0.0024	0.010	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.3	<0.5	3.3	8.3	5.4	0.03	1.6	1	1.6	0.0019	0.013	-
	H-3(Surface layer)	37.6653°	140.1329°	7.2	0.8	4.2	9.5	5.4	0.03	1.9	2	1.4	0.0021	0.011	-
	H-3(Bottom layer)	37.6653°	140.1329°	7.2	1.1	4.4	9.0	5.4	0.03	1.8	3	1.7	0.0021	0.014	0.0011
	H-5(Surface layer)	37.6523°	140.1568°	7.2	0.9	4.0	8.9	5.5	0.03	1.7	2	1.3	0.0021	0.011	-
	H-5(Bottom layer)	37.6523°	140.1568°	7.1	<0.5	3.7	8.7	5.4	0.03	1.8	2	1.5	0.0021	0.012	-
Lake Inawashiro	I-1(Surface layer)	37.5047°	140.1143°	7.5	<0.5	1.7	9.1	11.5	0.06	0.8	<1	0.8	0.0023	0.0097	-
	I-1(Bottom layer)	37.5047°	140.1143°	5.9	<0.5	1.5	9.4	13.5	0.07	0.7	2	0.9	N.D.(0.0017)	0.010	0.00090
	I-3(Surface layer)	37.5077°	140.0263°	7.0	<0.5	1.6	9.4	11.3	0.06	0.8	<1	0.5	N.D.(0.0015)	0.0095	-
	I-3(Bottom layer)	37.5077°	140.0263°	7.0	<0.5	1.6	9.4	11.3	0.06	0.7	<1	0.7	0.0024	0.0097	-
	J-1(Surface layer)	37.4203°	140.1008°	6.6	0.7	1.9	9.6	11.3	0.06	1.0	<1	0.5	N.D.(0.0018)	0.0097	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.8	2.0	2.9	9.2	11.5	0.06	1.1	<1	0.6	0.0021	0.0098	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-2(Surface layer)	38.0455°	140.9401°	8.1	0.8	1.7	8.1	4540	24.26	0.9	3	2.3	N.D.(0.0016)	0.0085	-
	K-2(Bottom layer)	38.0455°	140.9401°	8.1	0.6	1.6	6.4	5030	33.50	0.9	11	5.8	0.0023	0.015	0.00081
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	0.8	2.2	7.8	4750	31.95	1.1	5	1.9	0.0024	0.013	0.00085
	L-3	37.8217°	140.9765°	8.1	0.7	1.8	8.2	4840	31.90	1.1	3	1.8	N.D.(0.0016)	0.011	-
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.7	1.4	8.2	5010	33.36	1.0	1	0.6	0.0016	0.0075	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	0.6	1.6	7.5	5080	33.73	0.9	3	1.2	0.0023	0.017	0.00086

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	2016/10/23	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.024	-	-	-	201	31	170	-			
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	60	0.051	Larva (Dragonfly larva)	-	-	-	14.7	1.7	13	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops											
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	430	0.045	Imago	-	-	-	19.4	3.4	16	-	
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.027	Imago	-	Molluscos part	-	15.7	2.7	13	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	26	0.13	Immature fish,Mature fish	-	-	-	15.4	2.4	13	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.0031	Immature fish	-	-	-	10	N.D.(9.8)	10	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	4	0.024	Immature fish	-	-	-	16.2	3.2	13	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	18	0.13	Immature fish,Mature fish	-	-	-	14.3	2.3	12	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	32	0.062	Immature fish,Mature fish	-	-	-	10.3	1.2	9.1	-	
				Vertebrata	Amphibia	Anura	-	-	-	Frog	28	0.018	Larva (Tadpole)	-	-	-	135	15	120	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	4	0.031	Imago	-	-	-	41.0	6.0	35	-	
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese Brown Frog											
	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	4	0.028	Imago	-	-	-	3.5	N.D.(1.5)	3.5	-				
				Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	16.5	2.5	14	-		
	B-2	The main stream of the Abukuma River	2016/10/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.45	Mature fish	Amorphous Residue	Viscera removed	14.0	2.0	12	-		
			2016/10/3	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbuis</i>	Hemibarbus barbuis	3	4.2	Mature fish	Empty stomach	Viscera removed	9.7	1.6	8.1	-		
			2016/9/29	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	42	2.0	Mature fish	-	-	32.5	4.5	28	0.21		
			2016/10/2	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	1	2.4	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.29)	N.D.(0.29)	-		
	B-3	Surikami River	2016/10/23	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.028	-	-	-	113	13	100	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	193	0.029	Larva	-	-	-	20.7	2.7	18	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	118	0.043	Larva (Dragonfly larva)	-	-	-	2.2	N.D.(1.2)	2.2	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius											
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope</i>	Anax parthenope											
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.030	Imago	-	-	-	5.9	N.D.(1.6)	5.9	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	12	0.18	Immature fish	-	-	-	4.55	0.85	3.7	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	13	0.075	Immature fish,Mature fish	-	-	-	4.79	0.69	4.1	-		
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.049	Immature fish	-	-	-	6.5	1.2	5.3	-		
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	17	0.11	Immature fish,Mature fish	-	-	-	7.8	1.3	6.5	-		
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	14	0.039	Immature fish,Mature fish	-	-	-	8.9	1.3	7.6	-		
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Noemacheilus barbatulus</i>	Stone loach	13	0.20	Immature fish	-	-	-	3.72	0.52	3.2	-		
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	1	0.0092	Mature fish	-	-	-	12	N.D.(4.1)	12	-		
Vertebrata	Amphibia	Anura	-	-	-	Frog	27	0.036	Larva (Tadpole)	-	-	-	46.0	6.0	40	-				
			Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.30	-	-	-	37.0	6.0	31	-			

*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	-	2016/10/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.025	-	-	-	84.7	9.7	75	-		
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	<u>Spirogyra</u>	-	0.23	-	-	-	16.0	3.0	13	-	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	5	0.080	Imago	-	-	-	19.4	2.4	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	0.11	Immature fish,Mature fish	-	-	-	9.5	1.3	8.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	10	0.055	Immature fish	-	-	-	10.6	2.0	8.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	2	0.013	Immature fish	-	-	-	6.3	N.D.(3.0)	6.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	7	0.073	Immature fish,Mature fish	-	-	-	10.4	1.3	9.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	7	0.046	Immature fish	-	-	-	7.3	1.2	6.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	9	0.0091	Immature fish,Mature fish	-	-	-	5.5	N.D.(4.2)	5.5	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	7	0.029	Mature fish	-	-	-	19.2	3.2	16	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<u>Rhinogobius nagoyae</u>										
			Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	12.6	1.6	11	-		
Mano River	D-3	-	2016/9/30	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.089	Immature fish,Mature fish	Obscure digesta	Viscera removed	34.6	4.6	30	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	8	0.087	Immature fish,Mature fish	-	-	-	14.4	2.4	12	-
	D-4b	-	2016/10/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.013	-	-	-	282	42	240	-		
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton bertholdii</i>	Small pondweed	-	0.21	-	-	-	153	23	130	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	63	0.075	Imago	-	-	-	22.4	3.4	19	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	238	0.047	Imago	-	-	-	33.1	4.1	29	-
				Mollusca	Bivalvia	Unionoida	Unionidae	<i>Inversunio yokohamensis</i>	Inversunio yokohamensis	11	0.047	Imago	-	Molluscos part	-	94	14	80	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.030	Imago	-	Molluscos part	-	364	54	310	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.14	Immature fish,Mature fish	Amorphous Residue	Viscera removed	-	30.3	4.3	26	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	5	0.064	Immature fish,Mature fish	-	-	-	26.1	4.1	22	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	2	0.11	Immature fish,Mature fish	-	-	-	49.9	5.9	44	-
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	18	0.057	Immature fish,Mature fish	-	-	-	54.4	9.4	45	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<u>Rhinogobius nagoyae</u>														
			Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	21.4	3.4	18	-		
Nida River	E-2b	-	2016/10/21	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	192	32	160	-		
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	28	0.013	Larva (Dragonfly larva)	-	-	-	88.3	9.3	79	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Gomphus postocularis</i>	<u>Gomphus postocularis</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope</i>	Anax parthenope										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	17	0.092	Imago	-	-	-	80	11	69	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	40	0.0079	Imago	-	-	-	40.2	6.2	34	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	0.13	Immature fish,Mature fish	Amorphous Residue	Viscera removed	-	47.5	7.5	40	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	9	0.031	Immature fish	-	-	-	20.2	3.2	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	18	0.052	Immature fish,Mature fish	-	-	-	19.2	3.2	16	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	7	0.019	Mature fish	-	-	-	59.0	9.0	50	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	<u>Rhinogobius nagoyae</u>										
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.11	Immature fish	Fish	Viscera removed	-	42.6	5.6	37	-
Vertebrata	Amphibia	Anura	-	-	Frog	12	0.0096	Larva (Tadpole)	-	-	-	359	59	300	-				
Vertebrata	Amphibia	Anura	-	-	Frog	6	0.045	Imago	-	-	-	48.1	8.1	40	-				
			Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.29	-	-	-	186	26	160	-		

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*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			
Ota River	F-1	-	2016/10/21	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.017	-	-	-	2120	320	1800	-		
			2016/10/24	Algae/plant	-	-	-	<i>Bryophyta</i>	Bryophyte	-	0.050	-	-	-	1000	150	850	-	
			2016/10/21	Algae/plant	Monocotyledoneae	Poales	Poaceae	<i>Phragmites australis</i>	Common reed	-	0.11	-	-	-	1020	150	870	-	
			2016/10/21	Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	41	0.0098	Larva (Dragonfly larva)	-	-	-	176	26	150	-
			2016/10/21	Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
			2016/10/21	Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis										
			2016/10/21	Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus										
			2016/10/21	Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
			2016/10/21	Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
			2016/10/21	Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
			2016/10/24	Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	182	0.029	Imago	-	-	-	292	42	250	-
			2016/10/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius cuvieri</i>	Japanese crucian carp	30	0.012	Imago	-	Molluscous part	-	267	37	230	-
			2016/10/21	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	1	0.79	Mature fish	Algae	Viscera removed	-	410	60	350	-
			2016/10/21	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	4	0.011	Mature fish	-	-	-	407	57	350	-
2016/10/21	Vertebrata	Amphibia	Anura	-	-	Frog	4	0.017	Larva (Tadpole)	-	-	-	2000	300	1700	-			
2016/10/21	Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.19	-	-	-	-	141	21	120	-			
F-3	-	2016/10/21	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	6	0.040	Immature fish	-	-	-	224	34	190	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	0.0066	Immature fish	-	-	-	431	71	360	-	
Lake Hayama	G-1 G-2 G-3	In the lake	2016/10/22	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.015	-	-	-	4.6	N.D.(2.2)	4.6	-		
			2016/10/6	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.25	Mature fish	Amorphous Residue	Viscera removed	12.8	1.8	11	-	
			2016/10/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	2	0.89	Mature fish	Obscure digesta	Viscera removed	65	11	54	-	
			2016/10/6	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	5.5	Mature fish	Amorphous Residue	Viscera removed	56.7	8.7	48	2.0	
			2016/10/3	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.3	Mature fish	Fish	Viscera removed	307	47	260	-	
	G-4	Inflowing rivers	2016/10/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0076	-	-	-	-	660	90	570	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	1	1.9	Mature fish	Empty stomach	Viscera removed	659	99	560	0.49	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.023	Immature fish	-	-	-	42.5	5.5	37	-
				Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	-	75	11	64	-
				Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	8	0.54	Imago	-	-	-	18.9	2.9	16	-
Lake Akimoto	H-1 H-2 H-3	In the lake	2016/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	1.3	Mature fish	Midge	Viscera removed	62.5	8.5	54	0.82	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	7	0.074	Immature fish	-	-	-	15.9	2.9	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	5	0.60	Mature fish	Obscure digesta	Viscera removed	42.4	6.4	36	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.9	Mature fish	Amorphous Residue	Viscera removed	26.0	4.0	22	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	4	2.7	Mature fish	Empty stomach	Viscera removed	51.9	7.9	44	1.1	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	18	0.10	Mature fish	-	-	-	10.2	1.4	8.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	4	1.1	Mature fish	Japanese smelt	Viscera removed	35.0	5.0	30	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	8	2.7	Immature fish, Mature fish	Japanese smelt, Common prawn	Viscera removed	66.8	8.8	58	1.0	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	1	0.23	Mature fish	Common prawn	Viscera removed	39.4	4.4	35	-	
	H-3	The confluence with Nakatsu River	2016/10/18	Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	-	17.8	2.8	15	-	
	H-4	Within the lake and rivers in the vicinity	2016/10/18	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.021	-	-	-	-	N.D.	N.D.(1.9)	N.D.(1.5)	-	
				Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	-	0.31	-	-	-	-	3.85	0.65	3.2	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	24	0.030	Larva (Dragonfly larva)	-	-	-	10.9	2.1	8.8	-
Mollusca				Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.013	Imago	-	Molluscous part	-	8.2	N.D.(3.0)	8.2	-	
2016/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	5	0.030	Immature fish, Mature fish	-	-	-	11.6	1.6	10	-			

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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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*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				
Lake Inawashiro	I-1 I-2 (north lakeside)	-	2016/10/19	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	20	0.41	Immature fish,Mature fish	Obscure digesta	Viscera removed	16.0	2.0	14	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	0.81	Mature fish	Midge	Viscera removed	34.3	5.3	29	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	20	0.34	Immature fish,Mature fish	-	-	10.4	1.1	9.3	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	30	0.40	Immature fish,Mature fish	-	-	9.2	1.3	7.9	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	12	0.52	Mature fish	Obscure digesta	Viscera removed	15.0	2.0	13	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	2	0.78	Mature fish	Amorphous Residue	Viscera removed	26.0	4.0	22	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.052	Immature fish	Amorphous Residue	Viscera removed	11.9	2.0	9.9	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	1.3	Mature fish	Amorphous Residue	Viscera removed	28.0	4.0	24	-		
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	2.5	Mature fish	Japanese smelt	Viscera removed	53.8	8.8	45	0.18		
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	10	6.3	Immature fish	Japanese smelt	Viscera removed	31.3	5.3	26	-		
	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.078	Immature fish	Fish	Viscera removed	13.1	2.1	11	-					
			2016/10/18	Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	1.40	0.30	1.1	-		
			2016/10/19	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.027	-	-	-	N.D.	N.D.(1.6)	N.D.(1.3)	-		
			2016/10/18	Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.32	-	-	-	2.59	0.39	2.2	-		
		Algae/plant		Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	-	0.31	-	-	-	-	0.84	N.D.(0.32)	0.84	-		
		Algae/plant		Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	-	0.23	-	-	-	-	2.72	0.42	2.3	-		
		Mollusca		Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia japonica</i>	Japanese mysterysnail	27	0.16	Imago	-	Molluscos part	0.98	N.D.(0.48)	0.98	-			
		Mollusca		Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia chinensis laeta</i>	Mud-snail	19	0.031	Imago	-	Molluscos part	3.3	N.D.(1.5)	3.3	-			
		Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	26	0.010	Imago	-	Molluscos part	N.D.	N.D.(3.5)	N.D.(3.0)	-				
		J-1 (south lakeside)	-	2016/10/19	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.33	Immature fish,Mature fish	Obscure digesta	Viscera removed	17.6	2.6	15	-	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	1.1	Mature fish	Midge	Viscera removed	33.0	5.0	28	-		
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	20	0.35	Immature fish,Mature fish	-	-	5.41	0.61	4.8	-		
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	30	0.38	Immature fish,Mature fish	-	-	4.57	0.67	3.9	-		
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	40	0.26	Immature fish	-	-	9.0	1.2	7.8	-		
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	4	2.4	Mature fish	Amorphous Residue	Viscera removed	29.6	4.6	25	-		
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	2.8	Mature fish	Amorphous Residue	Viscera removed	24.8	3.8	21	-		
					2016/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	27	0.11	Immature fish,Mature fish	-	-	1.5	N.D.(0.55)	1.5	-
					2016/10/19	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	1.5	Mature fish	Japanese smelt	Viscera removed	50.1	7.1	43	0.16
	Vertebrata					Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	5	2.1	Immature fish,Mature fish	Japanese smelt	Viscera removed	31.4	4.4	27	-	
		2016/10/18	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	5	0.018	Immature fish	-	-	19.8	3.8	16	-			
	2016/10/19	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.93	Mature fish	Fish	Viscera removed	18.7	3.7	15	-				
	2016/10/18	Vertebrata	Amphibia	Anura	-	-	-	Frog	39	0.030	Larva (Tadpole)	-	-	15.3	2.3	13	-			
Vertebrata		Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	13	0.032	Imago	-	-	2.1	N.D.(1.6)	2.1	-					
	2016/10/18	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	<i>Cynops pyrrhogaster</i>	19	0.086	Imago	-	-	1.4	N.D.(0.74)	1.4	-				

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Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	-	2016/10/25	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	3	1.2	Imago	-	-	0.48	N.D.(0.31)	0.48	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Kareius bicoloratus</i>	Stone flounder	2	2.2	Immature fish, Mature fish	Ragworm	Viscera removed	0.71	N.D.(0.39)	0.71	N.D.(0.016)	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	1	1.7	Mature fish	Anchovy	Viscera removed	1.0	N.D.(0.38)	1.0	-	
				Vertebrata	Osteichthyes	Perciformes	Sciaenidae	<i>Nibea mitsukurii</i>	Nibe croaker	3	1.3	Mature fish	Isopods	Viscera removed	1.56	0.36	1.2	-	
			2016/10/24	Vertebrata	Osteichthyes	Perciformes	Carangidae	<i>Seriola quinqueradiata</i>	Japanese amberjack	1	2.7	Mature fish	Fish	Viscera removed	0.48	N.D.(0.29)	0.48	-	
Off Soma City	L-1 L-2 L-3	Matsukawaura	2016/10/24	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.019	-	-	-	7.2	N.D.(2.0)	7.2	-	
				Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	0.24	-	-	-	-	1.12	0.33	0.79	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon sp.</i>	Palaemon	110	0.015	Imago	-	-	-	N.D.	N.D.(2.3)	N.D.(1.9)	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	146	0.25	Imago	-	-	-	4.17	0.57	3.6	-
				Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	15	0.46	Imago	-	-	Molluscos part	0.43	N.D.(0.30)	0.43	-
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	113	0.35	Imago	-	-	Molluscos part	1.3	N.D.(0.48)	1.3	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	4	0.13	Immature fish	Shrimp, Crab	Viscera removed	1.8	N.D.(0.55)	1.8	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	27	0.32	Immature fish	Shrimp, Mysidacea	Viscera removed	1.4	N.D.(0.33)	1.4	-	
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	1	0.034	Immature fish	Shellfish	Viscera removed	1.7	N.D.(0.99)	1.7	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger obscurus</i>	<u>Dusky tripletooth goby</u>	21	0.032	Immature fish, Mature fish	-	-	-	2.4	N.D.(1.1)	2.4	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius breunigii</i>	Chestnut goby										
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby														
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2016/10/22	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	2	1.1	Mature fish	Shrimp	Viscera removed	2.43	0.33	2.1	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	2	0.96	Mature fish	Shellfish	Viscera removed	1.7	N.D.(0.32)	1.7	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	3.0	Mature fish	Anchovy	Viscera removed	1.2	N.D.(0.33)	1.2	N.D.(0.017)	
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	1	1.0	Mature fish	Shrimp	Viscera removed	0.73	N.D.(0.32)	0.73	-	
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu poecilonotus</i>	Pufferfish	3	0.75	Mature fish	Obscure digesta	Viscera removed	2.87	0.57	2.3	-	
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John Dory	2	1.2	Mature fish	Anchovy	Viscera removed	0.81	N.D.(0.37)	0.81	-	
				Vertebrata	Chondrichthyes	Squatiniiformes	Squatinaidae	<i>Squatina japonica</i>	Japanese angelshark	1	4.6	Immature fish	Fish	Viscera removed	4.79	0.79	4.0	-	
				Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Common Skete	2	1.6	Immature fish	Shrimp	Viscera removed	4.74	0.74	4.0	-	
	Vertebrata	Chondrichthyes	Carcharhiniiformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	2	1.8	Immature fish	Crab	Viscera removed	4.17	0.77	3.4	-				
	M-4	Hisanohama Coastal areas	2016/10/19	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	Eisenia bicyclis	-	0.32	-	-	-	2.13	0.33	1.8	-	
			Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis sp.</i>	Abalone	4	0.59	Imago	-	-	Molluscos part	0.42	N.D.(0.33)	0.42	-	
			Echinodermata	Echinoidea	Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	7	0.92	Imago	-	-	-	0.31	N.D.(0.30)	0.31	-	

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