○ Results of Radioactive Material Monitoring of Aquatic Organisms Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J　Samples collected＞

Items	General items		Radioactive materials			
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
I-1	○	○	○	○	○	○
I-2	—	○	—	—	○	—
I-3	○	○	○	—	○	—
I-4	—	○	—	—	○	—
J-1	○	○	○	—	○	—

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Site measurement item＞

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment					Other	
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Secchi disk depth (m)
I-1	37.504683°	140.114333°	2013/8/21	9:35	9:40	25.4	13.3	Ooze	7.5Y3/1	Faint hydrogen sulfide	Plant	9.3	9.3
I-2	37.499467°	140.140883°		—	9:02	—	16.0	Ooze	7.5Y4/1	Faint hydrogen sulfide	None	13.2	9.6
I-3	37.507700°	140.026250°		10:30	10:45	25.7	24.0	Ooze	7.5Y5/1	Faint hydrogen sulfide	Freshwater clam	6.5	6.5
I-4	37.515967°	140.109167°		—	10:00	—	25.1	Sand gravel	5Y6/3	None	Vallisneria denseserrulata	2.4	2.4
J-1	37.420333°	140.100833°		8:17	8:32	25.4	25.1	Sand	5Y5/2	None	None	5.6	5.6

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials　Water＞

Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
I-1 (Surface layer)	37.504683°	140.114333°	2013/8/21	9:35	6.8	<0.5	2.0	8.1	11.2	0.06	0.9	<1	0.6	0.013	0.030	—
I-1 (Deep layer)					6.8	0.6	2.2	8.2	11.2	0.06	0.8	1	0.9	0.012	0.026	0.00092
I-3 (Surface layer)	37.507700°	140.026250°		10:30	7.0	<0.5	1.8	7.8	11.2	0.06	1.0	<1	0.6	0.010	0.023	—
I-3 (Deep layer)					6.9	0.5	2.0	8.3	11.3	0.06	1.0	2	1.2	0.018	0.036	—
J-1 (Surface layer)	37.420333°	140.100833°		8:17	6.9	0.6	2.2	8.3	11.2	0.06	1.2	<1	0.6	0.042	0.089	—
J-1 (Deep layer)					6.9	0.8	2.1	8.1	11.2	0.06	0.9	<1	0.7	0.012	0.024	—

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J:　General survey items/Analysis of radioactive materials　Sediment＞

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
											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	Maximum grain diameter			
Locations	Latitude	Longitude	Date	Time		$E_{N.H.E}$ (mV)	(%)	(%)	(mg/g-dry)	(g/cm3)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
I-1	37.504683°	140.114333°	2013/8/21	9:40	7.0	55	82.6	10.4	29	2.559	0	0.1	4.7	30.6	16.1	48.5	0.0073	2	1,900	4,100	N.D.(<0.33)
I-2	37.499467°	140.140883°		9:02	6.9	-36	67.5	7.5	17	2.628	0.8	1.4	3.5	36.6	16.6	41.1	0.026	4.75	850	1,900	—
I-3	37.507700°	140.026250°		10:45	7.1	-15	68.8	8.3	16	2.646	0	0.2	3.3	25.2	29.0	42.3	0.016	2	79	170	—
I-4	37.515967°	140.109167°		10:00	6.9	176	24.6	2.2	2	2.756	32.0	16.9	36.4	9.7	1.2	3.8	0.82	19	32	75	—
J-1	37.420333°	140.100833°		8:32	7.2	73	30.0	2.0	4	2.672	0.3	4.1	73.9	17.4	0.7	3.6	0.32	9.5	68	150	—

Note) N.D. means to be below the detection limit.

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Analysis items Aquatic organisms＞

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note		Cs-134	Cs-137	Sr-90
	Latitude	Longitude										Growth stage	Stomach contents	(Bq/kg-wet)	(Bq/kg-wet)	(Bq/kg-wet)
I-1 I-2 (north lakeside)	37.504683° 37.499467°	140.114333° 140.140883°	2013/9/20	Arthropod	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	322	0.23	Imago	–	3.8	8.3	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius (small)	40	0.26	1-year-old fish	–	3.3	8.6	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius (large)	5	2.1	7-year-old fish	Some (details unknown)	11	29	0.46
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus (small)	9	0.69	1-year-old fish	Some (details unknown)	7.3	17	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus (large)	2	1.6	5-year-old fish	Some (details unknown)	20	45	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	47	1.7	2-year-old fish	Some (details unknown)	20	41	–
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	439	1.0	Mature fish	–	3.9	8.6	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Seema	3	1.1	2-year-old fish	Small fish	17	35	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char (small)	1	0.32	2-year-old fish	Small fish	38	84	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char (large)	1	0.95	3-year-old fish	None	48	110	–
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass (small)	3	0.67	2-year-old fish	Small fish	22	52	–
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass (large)	4	1.8	1-year-old fish	Small fish	27	63	0.30
J-1 (south lakeside)	37.420333°	140.100833°	2013/8/21	Algae/plant	–	–	–	–	Floating algae	–	0.048	–	–	N.D.(<0.95)	1.1	–
				Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	*Elodea nuttallii*	Western Waterweed	–	0.15	–	–	N.D.(<0.81)	N.D.(<0.67)	–
				Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	*Nuphar japonicum*	Cow lily	–	0.27	–	–	1.7	2.7	–
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Bellamya japonica*	Japanese mysterysnail	6	0.089	Imago	–	3.4	6.4	–
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish (small)	165	0.25	Yearling fish	–	N.D.(<1.7)	1.8	–
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish (large)	5	0.029	More than 1 year old	–	N.D.(<1.8)	1.8	–
				Vertebrata	Amphibia	Anura	Ranidae	*Rana rugosa*	Wrinkled Frog	5	0.035	Imago	–	2.0	4.4	–
			2013/8/25	Arthropod	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	120	0.049	Imago	–	2.6	6.1	–
			2013/8/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus*	Pseudogobio esocinus	11	0.18	Mature fish	–	8.5	20	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	3	0.25	4-year-old fish	Some (details unknown)	26	56	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius (small)	18	0.12	1-year-old fish	–	6.4	13	–
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass (small)	13	0.13	Yearling fish	Crustacean fragments	12	24	–
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass (large)	1	0.17	1-year-old fish	None	28	62	–
			2013/8/28	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus (small)	10	1.0	1-year-old fish	Some (details unknown)	8.4	19	–
			2013/8/29	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius (large)	2	1.6	6-year-old fish	Some (details unknown)	6.1	13	–
			2013/9/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus (large)	1	0.93	5-year-old fish	Some (details unknown)	14	29	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	1	0.75	4-year-old fish	Some (details unknown)	53	120	–

Note 1) When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.
Note 2) For species with stomach contents as indicated in the note column, all stomach contents were removed for conducting the analysis.
Note 3) Underlined names in the English name column indicate species largest in number in the respective samples.
Note 4) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.
Note 5) N.D. means to be below the detection limit.