

○ 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 Locations	General items		Radioactive materials			
	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 Locations	Latitude and longitude of the location		Survey date and time			Water		Sediment				Other	
	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°	2013/7/11	10:00	10:20	23.3	16.2	Sand/gravel/sediment	7.5Y4/1	Faint hydrogen sulfide	Plant	9.8	4.0
I-2	37.499467°	140.140883°	2013/7/11	—	9:40	—	11.5	Ooze	7.5Y4/1	Faint hydrogen sulfide	Plant	13.0	6.2
I-3	37.507700°	140.026250°	2013/7/11	11:14	11:29	22.7	20.3	Sand/sediment	2.5Y5/2	None	None	6.4	6.4
I-4	37.515967°	140.109167°	2013/7/11	—	10:45	—	23.0	Sand/gravel	2.5Y5/3	None	Vallisneria densescerrulata	2.4	2.4
J-1	37.420333°	140.100833°	2013/7/11	8:49	9:10	23.3	23.4	Sand	7.5Y5/4	None	Corbicula leana	3.9	3.9

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

Items Locations	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Latitude	Longitude	Date	Time												
I-1 (Surface layer)	37.504683°	140.114333°	2013/7/11	10:00	7.2	1.7	3.7	9.4	12.3	0.07	1.0	3	2.1	0.012	0.026	—
I-1 (Deep layer)	37.504683°	140.114333°	2013/7/11	10:00	6.5	<0.5	1.8	9.9	12.3	0.07	0.5	3	1.1	0.014	0.026	0.0010
I-3 (Surface layer)	37.507700°	140.026250°	2013/7/11	11:14	6.9	<0.5	1.6	8.6	11.6	0.09	0.6	<1	0.7	0.012	0.024	—
I-3 (Deep layer)	37.507700°	140.026250°	2013/7/11	11:14	6.9	<0.5	2.1	9.9	12.4	0.07	0.7	2	1.2	0.013	0.028	—
J-1 (Surface layer)	37.420333°	140.100833°	2013/7/11	8:49	6.9	<0.5	1.5	9.1	11.8	0.06	0.5	<1	0.5	0.019	0.041	—
J-1 (Deep layer)	37.420333°	140.100833°	2013/7/11	8:49	6.8	<0.5	2.0	9.5	11.6	0.06	0.5	<1	0.8	0.015	0.032	—

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

Items Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _h (H) (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Latitude	Longitude	Date	Time							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)
I-1	37.504683°	140.114333°	2013/7/11	10:20	6.7	33	42.7	3.2	<1	2.701	44.0	12.3	20.1	15.1	3.5	5.0	1.3	37.5	120	270	N.D. (<0.16)
I-2	37.499467°	140.140883°	2013/7/11	9:40	6.8	3	73.5	8.5	2	2.604	0.4	1.1	3.0	32.8	40.0	22.7	0.048	4.75	490	1,100	—
I-3	37.507700°	140.026250°	2013/7/11	11:29	6.7	80	74.0	11.4	1	2.631	0.6	0.1	0.9	22.4	52.4	23.6	0.023	4.75	66	170	—
I-4	37.515967°	140.109167°	2013/7/11	10:45	6.4	368	19.1	1.2	2	2.832	43.7	15.4	32.5	7.6	0.2	0.6	1.4	19	19	49	—
J-1	37.420333°	140.100833°	2013/7/11	9:10	6.6	392	27.9	1.5	1	2.765	6.6	8.1	50.0	32.9	0.6	1.8	0.31	9.5	56	130	—

<Lake Inawashiro (north lakeside) 1/ 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 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)	
	Latitude	Longitude										Growth stage	Stomach contents				
I-1 I-2 (north lakeside)	37.504683° 37.499467°	140.114333° 140.140883°	2013/7/11	Coarse particulate organic matters	—	—	—	—	CPOMs (fallen leaves)	—	1.1	—	—	52	110	—	
			2013/7/31	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.38	4-year-old fish	Some (details unknown)	55	110	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Carassius	9	3.0	6-year-old fish	Some (details unknown)	18	37	0.45	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	2	0.23	2-year-old fish	Small fish (Japanese smelt)	25	60	—	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.18	3-year-old fish	Small fish (Japanese smelt)	47	110	—	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.59	2-year-old fish	Insect	34	74	—	
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.4	Mature fish	Some (details unknown)	43	98	—					
J-1 (south lakeside)	37.420333°	140.100833°	2013/7/10	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Carassius	16	1.227	Mature fish	Some (details unknown)	23	53	—	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (large)	8	1.175	5-year-old fish	Some (details unknown)	32	77	—		
			2013/7/11	Algae/plant	—	—	—	—	Floating algae	—	0.050	—	—	N.D. (<0.99)	1.7	—	
				Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	—	2.673	—	—	—	1.3	1.6	—
				Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	—	0.014	—	—	—	N.D. (<3.5)	N.D. (<3.0)	—
				Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon pauceidens</i>	Common prawn	165	0.151	Imago	—	—	9.5	19	—
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia japonica</i>	Japanese mysterysnail	7	0.130	Imago	—	—	2.5	4.8	—
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	10	0.046	More than 1 year old	—	—	N.D. (<0.96)	N.D. (<0.95)	—
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	32	0.094	Imago	—	—	1.1	1.7	—	
			Vertebrata	Amphibia	Anura	—	—	Tadpole	182	0.086	Larva	—	—	39	81	—	
			2013/7/12	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	48	0.707	Mature fish	—	—	16	28	—
			2013/7/13	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace (small)	39	1.162	3-year-old fish	Some (details unknown)	37	87	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus (small)	5	0.846	2-year-old fish	Some (details unknown)	31	69	—	
			2013/7/15	Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	32	0.057	Mature fish	—	—	25	56	—
Vertebrata	Osteichthyes	Cypriniformes		Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus (large)	1	0.921	5-year-old fish	Contents none	—	26	55	—			
Vertebrata	Osteichthyes	Perciformes		Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.349	3-year-old fish	Crustacean fragments	—	48	110	—			

Note 1) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

Note 2) N.D. means to be below the detection limit.