

○ 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 >

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 >

Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other		
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (m)	
I-1(Surface layer)	37.5047°	140.1143°	2015/1/22	08:59	09:18	9.7	9.6	Ooze	7.5Y 4/1	Plant	11.0	>11.0	
I-1(Deep layer)	37.5047°	140.1143°		08:59		9.7							
I-2	37.4995°	140.1409°				08:44	9.8	Ooze	7.5Y 4/1	Plant	-	-	
I-3(Surface layer)	37.5077°	140.0263°		09:59	10:07	9.3	9.3	Sand sediment	7.5Y 3/2	None	7.2	>7.2	
I-3(Deep layer)	37.5077°	140.0263°		09:59		9.2							
I-4	37.5160°	140.1092°				09:34	-	8.9	Sand gravel	7.5Y 5/3	None	-	-
J-1(Surface layer)	37.4203°	140.1008°		08:03		08:16	9.7	9.5	Sand	7.5Y 4/3	None	4.3	>4.3
J-1(Deep layer)	37.4203°	140.1008°		08:03		9.3							

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

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)
	Scheduled latitude	Scheduled longitude	Date	Time (water)												
I-1(Surface layer)	37.5047°	140.1143°	2015/1/22	8:59	6.7	<0.5	1.3	10.2	11.2	0.06	0.5	<1	0.3	0.0031	0.012	-
I-1(Deep layer)	37.5047°	140.1143°		8:59	6.7	0.6	1.3	10.4	11.3	0.06	0.6	<1	0.3	0.0021	0.011	0.00091
I-3(Surface layer)	37.5077°	140.0263°		9:59	6.8	<0.5	1.3	10.5	11.2	0.06	0.9	<1	0.4	0.0019	0.011	-
I-3(Deep layer)	37.5077°	140.0263°		9:59	6.8	0.6	1.5	10.6	11.2	0.06	0.6	3	0.6	0.0035	0.015	-
J-1(Surface layer)	37.4203°	140.1008°		8:03	6.7	<0.5	1.3	10.7	11.2	0.06	0.6	<1	0.3	0.0032	0.012	-
J-1(Deep layer)	37.4203°	140.1008°		8:03	6.8	0.6	1.5	10.2	11.2	0.06	0.7	<1	0.5	0.0027	0.011	-

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

Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential EN.H.E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm3)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
	Scheduled latitude	Scheduled longitude	Date	Time (sediment)							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter			
I-1	37.5047°	140.1143°	2015/1/22	9:18	6.8	21	73.2	5.9	15.4	2.540	1.2	1.9	8.7	54.5	19.5	14.2	0.12	9.5	140	620	0.16
I-2	37.4995°	140.1409°		8:44	6.7	11	66.0	6.9	19.8	2.553	0.0	1.2	2.6	38.9	36.9	20.4	0.064	2.0	110	520	-
I-3	37.5077°	140.0263°		10:07	6.7	68	68.1	7.6	13.2	2.548	0.0	0.2	5.1	34.1	37.4	23.2	0.056	2.0	26	120	-
I-4	37.5160°	140.1092°		9:34	6.2	300	19.9	1.2	1.9	2.699	29.4	17.0	45.6	7.7	0.2	0.1	0.77	0.19	6.2	50	-
J-1	37.4203°	140.1008°		8:16	6.6	158	32.2	1.3	3.4	2.649	1.6	6.8	65.6	24.9	0.7	0.4	0.29	4.8	25	120	-

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

Location	Sampling point	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)		Sr-90 (Bq/kg-wet)		
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Cs-134	Cs-137			
I-1,I-2	-	37.5047°	140.1143°	2015/1/22	Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.14	-	-	-	N.D.(0.54)	1.6	-		
J-1 (south lakeside)	-	37.4203°	140.1008°		Phycophyta	-	-	-	-	-	Plankton (Planktonic algae)	-	0.028	-	-	-	N.D.(1.7)	N.D.(1.6)	-	
					Angiospermae	Dicotyledoneae	-	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.26	-	-	-	-	-	0.54	1.6	-
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina chinensis laeta</i>	Mud-snail	30	0.12	Imago	-	-	-	Molluscan body	N.D.(1.5)	N.D.(1.5)	-
					Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	46	0.017	Imago	-	-	-	Molluscan body	N.D.(4.6)	N.D.(4.0)	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.019	Immature fish (0-year-old)	-	-	-	-	N.D.(4.4)	5.6	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsarichthys platypus</i>	Zacco platypus	17	0.038	Immature fish/Mature fish (0-year-old)	-	-	-	-	N.D.(1.6)	6.1	-
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	44	0.042	Immature fish	-	-	-	-	N.D.(2.1)	N.D.(1.5)	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	24	0.047	Immature fish (0-year-old)/Mature fish (1-year-old)	-	-	-	-	1.8	8.0	-
					Vertebrata	Amphibia	Anura	Ranidae	<i>Glandirana rugosa</i>	Wrinkled Frog	6	0.049	Imago	-	-	-	-	N.D.(2.2)	N.D.(2.1)	-

*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 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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: 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.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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