

○ 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			
	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	Survey date and time			Latitude and longitude of the location		Water		Sediment				Other	
	Date	Time (Water)	Time (Sediment)	Latitude	Longitude	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Secchi disk depth (m)
I-1	2012/10/22	10:39	11:01	37.504683°	140.114333°	16.0	14.8	Ooze sand mingled, humus	5GY-3/1	Faint hydrogen sulfide	None	11.0	11.0
I-2	2012/10/22	-	11:26	37.499467°	140.140883°	-	14.8	Ooze	5Y-3/2	Faint hydrogen sulfide	None	15.1	10.4
I-3	2012/10/22	9:05	9:25	37.507700°	140.026250°	15.3	15.2	Ooze only slightly sand	2.5Y-4/3	None	None	5.5	5.5
I-4	2012/10/22	-	10:18	37.515967°	140.109167°	-	15.6	Sand gravel	2.5Y-4/4	None	Bacteria coating	1.9	1.9
J-1	2012/10/22	12:20	12:06	37.420333°	140.100833°	16.3	16.5	Sand	5Y-4/4	None	Freshwater clams	4.0	4.0

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

Items	Survey date and time		Latitude and longitude of the location		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)
	Date	Time	Latitude	Longitude												
I-1 (Surface layer)	2012/10/22	10:39	37.504683°	140.114333°	6.9	0.6	1.4	10.6	11.5	0.06	0.8	<1	0.2	0.017	0.031	—
I-1 (Deep layer)	2012/10/22	10:39	37.504683°	140.114333°	6.9	0.5	2.8	9.5	11.6	0.06	1.0	1	0.6	0.018	0.031	0.0011
I-3 (Surface layer)	2012/10/22	9:05	37.507700°	140.026250°	6.9	0.9	2.3	9.8	11.5	0.06	0.8	<1	0.5	0.025	0.040	—
I-3 (Deep layer)	2012/10/22	9:05	37.507700°	140.026250°	6.9	1.2	2.0	10.2	11.6	0.06	0.8	1	0.4	0.018	0.034	—
J-1 (Surface layer)	2012/10/22	12:20	37.420333°	140.100833°	6.9	1.9	2.2	9.7	11.8	0.06	0.7	1	0.4	0.016	0.029	—
J-1 (Deep layer)	2012/10/22	12:20	37.420333°	140.100833°	6.9	0.5	2.1	10.0	11.7	0.08	1.0	<1	0.4	0.017	0.029	—

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

Items	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{NHE} (mV)	Water content (%)	IL (%)	TOC mg/g-dry	Soil particle density (g/cm ³)	Grain size distribution						Median grain diameter (mm)	Maximum grain diameter (mm)	Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
	Date	Time	Latitude	Longitude							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) (%)					
I-1	2012/10/22	11:01	37.504683°	140.114333°	6.7	22	78.5	8.8	27	2.660	—	8.3	34.3	25.8	10.2	21.4	0.200	2.00	1,900	3,000	0.31
I-2	2012/10/22	11:26	37.499467°	140.140883°	6.8	44	46.9	4.7	14	2.630	1.0	2.4	3.3	53.2	13.6	26.5	0.100	4.75	78	130	—
I-3	2012/10/22	9:25	37.507700°	140.026250°	6.7	112	73.1	9.4	21	2.588	—	0.1	3.6	24.8	30.7	40.8	0.012	2.00	1,000	1,800	—
I-4	2012/10/22	10:18	37.515967°	140.109167°	6.2	272	22.2	1.8	2	2.853	37.3	6.6	39.7	14.5	0.3	1.6	0.610	19.00	53	92	—
J-1	2012/10/22	12:06	37.420333°	140.100833°	6.6	272	33.1	1.5	1	2.663	1.9	7.0	72.5	13.7	1.0	3.9	0.550	9.50	69	110	—

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

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)	Note		
		Latitude	Longitude												Growth stage	Stomach contents	
I-1 I-2 (north lakeside)	2012/11/16	37.504683° 37.499467°	140.114333° 140.140883°	Streptophyta	Zygnemataphy	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	—	0.022	55	80	—	—	—	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	5	3.2	16	31	0.68	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	15	0.83	24	38	—	Immature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.98	29	48	—	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitidae</i>		17	0.13	12	19	—	Mature fish	—	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	6	4.4	71	130	0.17	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.71	26	46	—	Mature fish	Some (details unknown)	
J-1 (south lakeside)	2012/10/22	37.420333°	140.100833°	—	—	—	—	—	CPOM (litter)	—	0.79	150	240	—	—	—	
				Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	—	2.0	1.1	1.8	—	—	—	
				Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	—	0.25	4.9	8.5	—	—	—	
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia japonica</i>	Japanese mysterysnail	12	0.17	3.6	5.4	—	Adult	—	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	2	0.94	14	25	—	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	8	1.4	37	60	—	Immature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	6	1.3	42	71	—	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	1	0.55	42	76	—	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	1.3	71	110	—	Mature fish	Some (details unknown)	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	0.75	37	72	—	Mature fish	Some (details unknown)	
Vertebrata	Amphibia	Anura	—	—	—	35	0.042	17	26	—	Larva	—					

Note) The Japanese name of the underlined, indicating that in the sample is the most harvested species.