

○Results of Radioactive Material Monitoring of Aquatic Organisms (Locations G and H in Lake Inawashiro)

<Locations G and H in Lake Inawashiro: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
G-1 (Surface layer)	○	—	○	—	—	—
G-1 (Deep layer)	○	○	○	○	○	○
G-2	—	○	—	—	○	—
H-1	—	○	—	—	○	—

<Locations G and H in Lake Inawashiro: Site measurement item>

Items Locations	Survey date and time		Latitude and longitude of the location		Water	Sediment					Other	
			Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk	Water depth
G-1 (Surface layer)	2012/6/5	8:51	37.5054	140.1138	15.8	-	-	-	-	-	6.0	-
G-1 (Deep layer)					10.3	7.9	Sand/sediment	5Y-2/2	Faint hydrogen sulfide	Plant	-	16.0
G-2		9:52	37.5005	140.1401	-	8.9	Fine sand	5Y-3/2	None	Plant	5.3	17.5
H-1		10:24	37.4205	140.1011	-	14.3	Sand	5GY-5/1	None	Some plant pieces	7.5	12.0

<Locations G and H in Lake Inawashiro: Analysis items Water>

Items Locations	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)
			Latitude	Longitude												
G-1 (Surface layer)	2012/6/5	8:51	37.5054	140.1138	4.3	<0.5	1.4	9.0	17.6	0.09	0.5	<1	0.3	0.018	0.026	—
G-1 (Deep layer)					6.5	<0.5	1.4	11.4	0.05	0.6	1	0.6	0.028	0.044	0.0013	
G-2		9:52	37.5005	140.1401	-	-	-	-	-	-	-	-	-	-	-	-
H-1		10:24	37.4205	140.1011	-	-	-	-	-	-	-	-	-	-	-	-

<Locations G and H in Lake Inawashiro: Analysis items Sediment>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{N,H,E} (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							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)
G-1	2012/6/5	8:51	37.5054	140.1138	6.6	31	68.9	6.5	28	2.614	3.8	0.7	10.4	52.5	16.3	16.3	0.14	9.5	4,200	6,300	0.42
G-2					6.8	350	58.8	6.2	15	2.574	0.2	1.0	1.8	44.4	24.4	28.2	0.065	4.75	3,000	4,500	—
H-1		10:24	37.4205	140.1011	6.6	19	41.2	3.9	4	2.617	0.1	2.3	58.6	31.3	3.8	3.9	0.28	4.75	79	130	—

<Locations G and H in Lake Inawashiro: 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
G-1 G-2 (north lakeside)	2012/6/5	37.5054	140.1138	Vertebrata	Siluriformes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	2.3	38	57	—	Mature fish	Japanese dace
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	7	4.8	150	230	0.12	Mature fish	Lake smelt, small fish
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	6	5.0	140	210	—	Mature fish	Small fish
		Vertebrata	Perciformes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	3.0	70	100	0.30	Mature fish	Small fish		
		Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	6	2.1	31	46	—	Mature fish	Some (details unknown)		
		Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.29	60	89	—	Immature fish	—		
		Streptophyta	Zygnematales	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	—	0.20	200	300	—	—	—		
H-1 (south lakeside)	2012/6/4	37.4205	140.1011	Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	8	2.4	150	230	—	Mature fish	Small fish
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	6	1.7	180	250	—	Mature fish	Small fish
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	18	2.6	56	84	—	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	(Many)	2.2	38	60	—	Immature fish	—
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	2.2	19	27	0.30	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	12	0.30	20	29	—	Mature fish	—
	2012/6/5			Angiospermae	Nymphaeales	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	—	2.7	3.5	5.5	—	—	—