

## ○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	Items	General items		Radioactive materials			
		Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
J-1		○	○	○	○	○	○

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

Locations	Items	Latitude and longitude of the location		Survey date and time		Water	Sediment				Other		
		Latitude	Longitude	Date	Time (water)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	
J-1(Surface layer)		37.4203°	140.1008°	2019/6/8	12:15	12:40	18.3	18.1	Sand	7.5Y 6/3	Corbicula	4.3	>4.3
							18.1					0.6	

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

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric 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 (water)												
J-1(Surface layer)		37.4203°	140.1008°	2019/6/8	12:15	6.8	<0.5	1.4	9.9	11.8	0.06	0.6	<1	0.6	N.D.(0.0014)	0.0054	-
							6.8	0.6	1.7	9.9	11.9	0.06	0.8	2	N.D.(0.0016)	0.0065	0.00094

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
		Latitude	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 (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)		
J-1		37.4203°	140.1008°	2019/6/8	12:40	6.6	389	26.8	0.8	1.5	2.791	0.3	0.9	72.3	25.0	1.5	0.31	9.5	0.26	4.6	N.D.(0.13)

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific 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	Total	Cs-134	Cs-137		
I-1 I-2 (north lakeside)	Within the lake and Nagase River	37.5047° 37.4995°	140.1143° 140.1409°	2019/7/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	6	1.9	Mature fish	Obscure digesta	Viscera removed	24.3	2.3	22	0.49	
						Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.6	Mature fish	Obscure digesta	Viscera removed	24.2	1.2	23	0.59	
				2019/6/8		Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	1	0.95	Mature fish	Common prawn	Viscera removed	19.8	1.8	18	0.13	
						Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	1.9	Immature fish	Common prawn	Viscera removed	17.94	0.94	17	0.41	
						Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.2	Mature fish	Frog,Fish	Viscera removed	11.63	0.63	11	0.20	
				2019/6/8	Course Particulate Organic Matter		Bottom fallen leaves		-	0.25	-	-	-	-	18.5	1.5	17	-		
					Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.0087	-	-	-	N.D.	N.D.(3.6)	N.D.(3.2)	-		
					Algae/plant	Dicotyledoneae	Nymphaeales	<i>Nymphaea</i> <i>japonicum</i>	Cow lily	-	0.32	-	-	-	0.45	N.D.(0.30)	0.45	-		
					Algae/plant	Dicotyledoneae	Solanaceae	<i>Nymphaeoides peltata</i>	Fringed water-lily	-	0.33	-	-	-	0.78	N.D.(0.27)	0.78	-		
					Arthropoda	Insecta	Odonata	<i>Cordulegastridae</i>	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	9	0.013	Larva(Dragonfly larva)	-	-	2.8	N.D.(2.6)	2.8	-	
J-1 (south lakeside)	Within the lake and around the Oninuma	37.4203°	140.1008°	2019/7/2	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	1768	1.3	Imago	-	-	8.02	0.42	7.6	0.67	