○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)
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	Contaminants	Water depth (m)	Secchi disk depth (m)
J-1(Surface layer)	37.4203°	140.1008°	2020/7/3	14:20	15:00	21.0	20.5	Sand	7.5Y 5/3	Corbicula,Waterweed	3.5	>3.5
J-1(Bottom layer)						20.7						

<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	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
J-1(Surface layer)	37.4203°	140.1008°	2020/7/3	14:20	6.8	0.9	2.4	9.0	11.9	0.06	1.0	<1	0.9	N.D.(0.0014)	0.0052	-
J-1(Bottom layer)					6.9	0.6	1.8	8.5	11.9	0.06	1.1	<1	0.7	N.D.(0.0013)	0.0050	0.00068

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>

Items / Locations	Latitude and longitude of the location		Survey date and time		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)
											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)			
	Latitude	Longitude	Date	Time (sediment)																	
J-1	37.4203°	140.1008°	2020/7/3	15:00	7.3	377	24.8	1.4	4.7	2.727	2.2	1.3	54.0	40.9	1.6		0.28	9.5	7.2	110	0.18

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
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
I-1 I-2 (north lakeside)	Within the lake and Nagase River	37.5047° 37.4995°	140.1143° 140.1409°	2020/6/12	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	10	1.8	Mature fish	Obscure digesta	Viscera removed	19.91	0.91	19	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	4	2.0	Mature fish	Obscure digesta	Viscera removed	12	N.D.(1.5)	12	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	1.0	Mature fish	Obscure digesta	Viscera removed	1.8	N.D.(0.66)	1.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	3	1.1	Immature fish,Mature fish	Obscure digesta	Viscera removed	36.5	2.5	34	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	2	2.2	Mature fish	Obscure digesta	Viscera removed	41.3	2.3	39	0.12
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus mykiss*	Rainbow trout	1	0.88	Mature fish	Midge	Viscera removed	20.1	1.1	19	-
					Vertebrata	Osteichthyes	Perciformes	Actinopterygii	*Channa argus*	Snakehead	1	1.1	Immature fish	Carassius,Fish residue	Viscera removed	14.2	1.2	13	0.40
					Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	2	2.4	Mature fish	Obscure digesta	Viscera removed	17.89	0.89	17	0.22
				2020/7/1	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.12	-	-	-	N.D.	N.D.(1.3)	N.D.(1.2)	-
J-1 (south lakeside)	Within the lake and around the Oninuma	37.4203°	140.1008°	2020/7/3	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0085	-	-	-	N.D.	N.D.(3.9)	N.D.(3.4)	-
				2020/7/1	Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	*Nuphar japonicum*	Cow lily	-	0.28	-	-	-	0.57	N.D.(0.23)	0.57	-
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	1820	1.2	Juvenile,Imago	-	-	6.3	N.D.(0.56)	6.3	0.80
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Cipangopaludina japonica*	Japanese mysterysnail	30	0.095	Juvenile,Imago	-	Molluscous part	6.3	N.D.(0.65)	6.3	-
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Cipangopaludina chinensis laeta*	Mud-snail	20	0.028	Juvenile,Imago	-	Molluscous part	1.8	N.D.(1.7)	1.8	-
					Mollusca	Gastropoda	Discopoda	Pleuroceridae	*Semisulcospira libertina*	Semisulcospira libertina	21	0.019	Imago	-	Molluscous part	1.8	N.D.(2.0)	1.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Opsariichthys platypus*	Pale chub	7	0.087	Immature fish,Mature fish	-	-	8.6	N.D.(1.1)	8.6	-
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	22	0.031	Immature fish,Mature fish	-	-	2.1	N.D.(2.0)	2.1	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Gymnogobius urotaenia*	Goby	48	0.11	Immature fish	-	-	14	N.D.(2.2)	14	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius kurodai*	Rhinogobius kurodai	17	0.0082	Immature fish,Mature fish	-	-	8.4	N.D.(3.6)	8.4	-
					Vertebrata	Amphibia	Anura	-	-	Frog	158	0.075	Larva(Tadpole)	-	-	20	N.D.(0.81)	20	-
					Vertebrata	Amphibia	Anura	Glandirana	*Glandirana rugosa*	Wrinkled frog	5	0.059	Imago	-	-	N.D.	N.D.(1.1)	N.D.(1.2)	-
					Vertebrata	Amphibia	Caudata	Salamandridae	*Cynops pyrrhogaster*	Cynops pyrrhogaster	23	0.12	Imago	-	-	1.1	N.D.(0.51)	1.1	-

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

*6: 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.

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

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