

## 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)
J-1(Surface layer)	37.4203°	140.1008°	2021/8/30	14:15	15:00	24.5	24.3	Sand	7.5Y4/3	Corbicula	3.5	>3.5
J-1(Bottom layer)						24.3						

<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 (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity (mg/L)	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°	2021/8/30	14:15	7.0	<0.5	1.4	8.7	11.8	0.06	0.8	<1	0.5	N.D.(0.0015)	0.0043	-
J-1(Bottom layer)					7.0	<0.5	1.7	8.6	11.8	0.06	0.9	<1	0.6	N.D.(0.0013)	0.0045	0.00077

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 <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°	2021/8/30	15:00	5.8	397	26.3	1.8	2.9	2.691	1.0	2.9	24.7	53.2	14.6	3.6	0.16	9.5	2.4	56	0.16

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

## &lt;Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Analysis items Aquatic organisms&gt;

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°	140.1143°	2021/8/31	140.1409°		Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	35	0.018	Larva(Dragonfly larva)	-	-	1.5	N.D.(2.1)	1.5	-
							Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	Shaogomphus postocularis									
							Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	15	0.032	Juvenile	-	-	3.6	N.D.(2.4)	3.6	-
							Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	63	0.13	Juvenile,Imago	-	-	4.1	N.D.(0.79)	4.1	-
							Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	95	0.042	Imago	-	-	3.3	N.D.(1.8)	3.3	-
							Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	1	0.0065	Juvenile	-	Molluscous part	N.D.	N.D.(5.8)	N.D.(5.0)	-
							Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira reiniana</i>	Semisulcospira reiniana	30	0.015	Juvenile,Imago	-	Molluscous part	3.2	N.D.(2.8)	3.2	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	0.032	Immature fish	-	-	3.0	N.D.(1.7)	3.0	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	1	0.021	Mature fish	-	-	2.3	N.D.(2.7)	2.3	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus rhombeus</i>	Acheilognathus rhombeus	8	0.030	Immature fish	-	-	2.1	N.D.(2.0)	2.1	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	2	0.26	Immature fish,Mature fish	Obscure digesta	Viscera removed	5.9	N.D.(2.0)	5.9	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	3	0.010	Immature fish	-	-	2.5	N.D.(2.8)	2.5	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.5	Mature fish	Obscure digesta	Viscera removed	9.2	N.D.(1.5)	9.2	0.45
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Slender bitterling</i>	Slender bitterling	7	0.011	Immature fish,Mature fish	-	-	N.D.	N.D.(3.2)	N.D.(2.6)	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	16	0.046	Immature fish,Mature fish	-	-	1.9	N.D.(1.4)	1.9	-
							Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	3	0.023	Immature fish	-	-	6.7	N.D.(2.9)	6.7	-
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	69	0.56	Immature fish	-	-	4.1	N.D.(1.6)	4.1	-
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	Rhinogobius kurodai	18	0.025	Immature fish,Mature fish	-	-	3.3	N.D.(2.5)	3.3	-
							Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	0.29	Immature fish	Grasshopper,Fish	Viscera removed	8.0	N.D.(1.9)	8.0	-
							Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	7	0.059	Imago	-	-	3.0	N.D.(2.7)	3.0	-
							Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	-	-	Bottom fallen leaves	-	-	5.5	N.D.(1.8)	5.5	-
							Coarse Particulate Organic Matter	-	-	-	-	-	-	0.20	-	-	-	-	-	-	
J-1 (south lakeside)	Within the lake and around the Oninuma	37.4203°	140.1008°	2021/8/30			Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western waterweed	-	0.28	-	-	-	0.64	N.D.(0.26)	0.64	-
							Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	652	0.28	Juvenile,Imago	-	-	5.9	N.D.(1.4)	5.9	-
				2021/8/31			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	2	0.014	Immature fish	-	-	7.9	N.D.(3.0)	7.9	-
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	5	0.059	Immature fish,Mature fish	Obscure digesta	Viscera removed	11	N.D.(3.1)	11	-
				2021/8/30			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	9	2.6	Mature fish	Obscure digesta	Viscera removed	25	N.D.(1.6)	25	0.51
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	2.5	Mature fish	Obscure digesta	Viscera removed	27	N.D.(1.1)	27	0.39
				2021/8/31			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.12	Immature fish	Empty stomach	Viscera removed	11	N.D.(3.1)	11	-
							Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	10	0.61	Immature fish	Fish	Viscera removed	15	N.D.(1.9)	15	-
				2021/8/30			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	43	0.098	Immature fish	-	-	5.9	N.D.(1.9)	5.9	-
							Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.50	Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.7)	16	-
				2021/8/31			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.81	Mature fish	Obscure digesta	Viscera removed				