OResults 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	Genera	ıl items	Radioactive materials										
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)							
J-1	0	0	0	0	0	0							

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

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Items	Items Latitude and longitude of the location			Survey date and time		Water		Sedi		Other			
Locations	Latitude Longitude Date Time (water) Time (sediment)		Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)			
J-1(Surface layer)	27.42029	140.1008°	2017/12/1	12.24	12.20	7.0	7.0	Con d onovol	7.5Y 5/3	Enachyvotan alam	2.5	>2.5	
J-1(Bottom layer)	37.4203°	140.1008	2017/12/1	12:34	13:20	7.9	7.9	Sand gravel	7.31 3/3	Freshwater clam	3.5	>3.5	

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

Item	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
Locations	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°	2017/12/1	12:34	7.1	<0.5	1.2	11.7	10.5	0.06	0.8	<1	0.3	N.D.(0.0014)	0.0070	-
J-1(Bottom layer)		140.1008	2017/12/1	12:34	6.9	<0.5	2.2	11.1	10.7	0.06	1.0	<1	0.5	N.D.(0.0014)	0.0072	0.00069

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>

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Items	Latitude and	longitude of the	Survey de	Survey date and time							Grain size distribution										
nens	location		Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		E _{N.H.E}				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			
Locations						(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
J-1	37.4203°	140.1008°	2017/12/1	13:20	6.1	341	28.5	1.5	2.3	2.740	2.2	5.1	47.7	37.4	4.8	2.8	0.27	9.5	7.6	55	N.D.(0.12)

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	Compliance int	Latitude and longitude of the		Sampling date	Division	Class	0-1	Eamily	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
Locations	Sampling point	Latitude	Longitude	Sampling date	Division	Class	Order	Family	my Scientific frame English name		Population	(kg-wet)	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°	2017/12/1	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	0.54	N.D.(0.48)	0.54	-
					Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.021	-	-	-	N.D.	N.D.(1.6)	N.D.(1.6)	-
T 1	Within the lake		(Mollusca	Gastropoda	Architaenioglossa	Viviparidae	Bellamya japonica	Japanese mysterysnail	5	0.017	Imago	-	Molluscous part	N.D.	N.D.(3.7)	N.D.(3.1)	-
(south lakeside)	and around the	37.4203°	140.1008°	2017/12/1	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	Misgurnus anguillicaudatus	Oriental weatherfish	84	0.038	Immature fish,Mature fish	Obscure digesta	Viscera removed	1.6	N.D.(1.7)	1.6	-
(South lakeside)	Oninuma				Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gymnogobius urotaenia	Goby	8	0.012	Immature fish	-	-	9.3	N.D.(4.4)	9.3	-
					Vertebrata	Amphibia	Anura	-	-	Frog	132	0.055	Larva (Tadpole)	-	-	7.1	N.D.(1.6)	7.1	- /

*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 ($40\mu m$ -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.