OResults of Radioactive Material Monitoring of Aquatic Organisms (Location C along the Uda River)

<Location C along the Uda River: Samples collected>

Items	Gener	al items		Radioactiv	e materials		
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)	
C-6	0	0	0	0	0	0	

<Location C along the Uda River: Site measurement item>

Items		longitude of the ation		Survey date and time		Water		Sedi	ment		Ot	er	
Locations	Latitude Longitude		Date Time (water) Time (sediment)		Water temperature (degrees C)	Sediment temperature (degrees C) Property		Color Contaminants		Water depth (m)	Transparency (cm)		
C-6	37.7764°	140.8877°	2018/12/6	10:25	10:40	9.0	9.1	Sand	2.5Y4/4	None	0.48	>50	

<Location C along the Uda River: General survey items/Analysis of radioactive materials Water>

Items	Latitude and longitude of the location		of the 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)
C-6	37.7764°	140.8877°	2018/12/6	10:25	7.3	<0.5	2.4	12.0	9.5	0.05	1.1	<1	0.3	N.D.(0.0013)	0.0063	0.0011

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

<Location C along the Uda River: General survey items/Analysis of radioactive materials Sediment>

Itomo	Latitude and I	Latitude and longitude of the		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_{NHE}				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	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
C-6	37.7764°	140.8877°	2018/12/6	10:40	7.6	322	19.0	1.1	1.2	2.697	16.6	42.3	37.9	2.3).9	1.0	4.8	13	160	0.52

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

<Location C along the Uda River: Analysis items Aquatic organisms:</p>

<location along="" c="" th="" the<=""><th>Uda River: Analysis item</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></location>	Uda River: Analysis item																								
Locations	Sampling point	Latitude and longitude of the		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90						
		Latitude	Longitude								,	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)						
					Arthropoda	Insecta	Ephemeroptera	Isonychiidae	Isonychia valida	Isonychia valida	324	0.011	Larva	-	-	13	N.D.(2.9)	13	-						
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria uenoi	Kamimuria uenoi Kohno								3							
						Arthropoda	Insecta	Plecoptera	Perlidae	Oyamia lugubris	Oyamia lugubris					/			1						
	The main stream											Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	345	0.035	Larva	-	-	1.8	N.D.(1.4)	1.8
C-6	of the Uda River	37.7764°	140.8877°	.8877° 2018/12/2	Arthropoda	Insecta	Plecoptera	Perlidae	Paragnetina suzukii	Paragnetina suzukii Okamoto		1													
	of the Oda Kivei					Arthropoda	Insecta	Plecoptera	Perlidae	Neoperla sp.	Neoperla														
						Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	192	0.038	Larva	-	-	23.6	1.6	22	-					
					Arthropoda	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis	44	0.033	Larva	-	-	6.0	N.D.(1.8)	6.0	-						
					Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	Cottus pollux	Japanese fluvial sculpin	1	0.018	Immature fish	-	-	8.7	N.D.(2.7)	8.7	-						

^{*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 (storach 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 μ m-mesh).

^{*6:} River bottom materials (incl. algue) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

 $^{^{\}circ}$ 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.