

Results of Radioactive Material Monitoring of Aquatic Organisms (Location F along the Ota River)

<Location F along the Ota River: Samples collected>

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

<Location F along the Ota River: Site measurement item>

Items	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)
F-1	37.5975°	140.9252°	2020/7/1	09:15	09:26	17.7	19.6	Sand	10YR5/4	None	0.35	>50

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

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)												
F-1	37.5975°	140.9252°	2020/7/1	09:15	7.3	<0.5	2.2	9.9	5.7	0.03	0.9	1	0.9	0.0028	0.061	0.0034

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

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

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (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)	
	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)		
F-1	37.5975°	140.9252°	2020/7/1	09:26	7.4	391	14.8	0.6	1.9	2.656	22.4	43.7	30.8	2.2	0.9	1.2	9.5	9.8	200	0.26

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

<Location F along the Ota River: 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		
F-1	The main stream of the Ota River	37.5975°	140.9252°	2020/7/1		Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0020	-	-	-	140	N.D.(33)	140	-	
						Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.20	-	-	-	26.4	1.4	25	-
						Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	71	0.015	Larva(Dragonfly larva)		58	N.D.(3.1)	58	-	
						Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii									
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Astrogomphus melaenops</i>	Astrogomphus melaenops									
						Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria macalachlani</i>	Boyeria macalachlani									
						Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes sp.</i>	Parachauliodes									
						Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis									
						Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	Common prawn	69	0.096	Imago	-	-	70.4	3.4	67	-
						Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	61	0.011	Juvenile,Imago	-	-	59	N.D.(14)	59	-
						Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	3	0.086	Juvenile	-	-	159.0	9.0	150	-
						Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.053	Immature fish	Obscure digesta	Viscera removed	245	15	230	-
						Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.15	Mature fish	Obscure digesta	Viscera removed	380	20	360	-
						Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.28	Mature fish	Freshwater shrimp</					