

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

<Location C along the Uda River: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
C-6	○	○	○	○	○	○

<Location C along the Uda River: 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)	Transparency (cm)
C-6	37.7764°	140.8877°	2021/8/27	09:37	09:40	21.1	22.8	Sand	10YR5/4	None	0.45	>50

<Location C along the Uda River: 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)		
C-6	37.7764°	140.8877°	2021/8/27	09:37	7.5	0.5	3.1	9.2	9.4	0.05	1.1	14	7.9	N.D.(0.0014)	0.0066	0.00072

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>

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)		
C-6	37.7764°	140.8877°	2021/8/27	09:40	7.7	520	15.5	0.9	1.1	2.713	35.5	34.8	19.6	2.8	3.8	1.4	9.5	1.4	49	0.21

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>

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	
C-6	The main stream of the Uda River	37.7764°	140.8877°	2021/8/23	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0017	-	-	-	29	N.D.(17)	29	-	
					Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procamburus clarkii</i>	Red swamp crawfish	19	0.23	Juvenile,Imago	-	-	3.5	N.D.(1.7)	3.5	-
					Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	221	0.034	Juvenile,Imago	-	-	3.3	N.D.(1.4)	3.3	-
					Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	6	0.057	Juvenile	-	-	3.2	N.D.(1.2)	3.2	-
					Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	1.1	Immature fish,Mature fish	Obscure digesta	Viscera removed	7.8	N.D.(2.7)	7.8	0.068
				2021/8/28	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.075	Immature fish	-	-	2.8	N.D.(0.63)	2.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	120	0.43	Immature fish	-	-	6.6	N.D.(1.2)	6.6	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	4	0.037	Immature fish	-	-	2.2	N.D.(1.3)	2.2	-
				2021/8/23	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	71	0.55	Immature fish,Mature fish	-	-	2.8	N.D.(1.4)	2.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	5	0.026	Immature fish	-	-	7.8	N.D.(3.6)	7.8	-
				2021/8/23	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	49	0.078	Immature fish,Mature fish	-	-	1.6	N.D.(0.71)	1.6	-
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	29	0.074	Mature fish	-	-	1.7	N.D.(0.77)	1.7	-
				2021/8/23	Vertebrata	Osteichthyes	Salmoniformes	Osmridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	111	1.3	Immature fish,Mature fish	-	-	9.9	N.D.(1.8)	9.9	0.17
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	23	0.051	Immature fish,Mature fish	-	-	3.8	N.D.(1.3)	3.8	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae			Immature fish,Mature fish	-	-	2.0	N.D.(0.98)	2.0	-
				2021/8/23	Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	12	0.048	Immature fish	-	-	14	N.D.(2.5)	14	-
					Vertebrata	Amphibia	Anura	-	Frog	51	0.14	Larva(Tadpole)	-	-	6.0	N.D.(2.5)	6.0	-	