

Results of Radioactive Material Monitoring of Aquatic Organisms (Location E along the Niida River)

<Location E along the Niida River: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
E-2 a	○	○	○	○	○	○

<Location E along the Niida 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)
E-2 a	37.6640°	140.9447°	2021/8/26	13:32	13:47	24.4	25.1	Sand with silt	5Y4/2	None	0.36	33

<Location E along the Niida 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)	
E-2 a	37.6640°	140.9447°	2021/8/26	13:32	7.3	<0.5	3.8	8.8	7.1	0.04	1.4	11	7.8	0.0032	0.063	0.0016

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

<Location E along the Niida 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 _{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)			
E-2 a	37.6640°	140.9447°	2021/8/26	13:47	7.2	394	16.0	1.6	3.0	2.678	28.8	22.1	27.2	9.9	8.6	3.4	0.88	9.5	15	440	0.26

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

<Location E along the Niida 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				
E-2 b	The main stream of the Niida River	37.6635°	140.9452°	2021/8/24																		
													Riverbed Deposits (Include algae)	-	0.0059	-	-	150	N.D.(20)	150	-	
													Stenopsyche marmorata	28	0.0098	Larva	-	-	19	N.D.(5.7)	19	-
													Protohermes grandis	72	0.039	Larva	-	-	9.6	N.D.(4.0)	9.6	-
													Procamburus clarkii	10	0.037	Juvenile,Imago	-	-	29	N.D.(4.1)	29	-
													Eriocheir japonica	72	0.66	Juvenile	-	-	20	N.D.(1.5)	20	5.0
													Anguilla japonica	1	0.33	Mature fish	Obscure digesta	Viscera removed	29	N.D.(1.9)	29	-
													Cottus pollux	18	0.24	Immature fish	-	-	9.8	N.D.(1.2)	9.8	-
													Tribolodon hakonensis	46	1.1	Immature fish,Mature fish	-	-	15	N.D.(1.3)	15	0.40
													Opsariichthys platypus	171	1.1	Immature fish	-	-	14	N.D.(1.4)	14	0.59
													Pseudogobio esocinus esocinus	57	0.16	Immature fish,Mature fish	-	-	10	N.D.(1.7)	10	-
													Sarcophelichthys variegatus variegatus	4	0.037	Immature fish,Mature fish	-	-	13	N.D.(5.5)	13	-
													Candidia temminckii	23	0.093	Immature fish	-	-	7.9	N.D.(2.9)	7.9	-
													Acheilognathus melanogaster	12	0.010	Immature fish,Mature fish	-	-	61	N.D.(3.4)	61	-
													Gnathopogon elongatus elongatus	18	0.074	Immature fish,Mature fish	-	-	12</td			