

**OResults of Radioactive Material Monitoring of Aquatic Organisms (Location L off Soma City)**

<Location L off Soma City: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
L-2	○	○	○	○	○	○

<Location L off Soma City: 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)	Secchi disk depth (m)		
L-2	37.8155°	140.9763°	2021/8/23	11:02	11:25	24.8	24.9	Sand	7.5Y4/2	Shell fragments	0.9	>0.9		

<Location L off Soma City: 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)												
L-2	37.8155°	140.9763°	2021/8/23	11:02	8.0	0.8	4.5	7.9	3290	20.00	1.8	23	13.3	N.D.(0.0014)	0.032	0.0011

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

<Location L off Soma City: General survey items/Analysis of radioactive materials Sediment>

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E <sub>h</sub> (H) (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)			

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

<Location L off Soma City: 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			
L-1 L-2 L-3	Matsukawaura Lagoon	37.8210° 37.8155° 37.8217°	140.9610° 140.9763° 140.9765°	2021/8/23	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	1.2	-	-	-	0.19	N.D.(0.096)	0.19	-		
				2021/8/25	Annelida	Polychaeta	Eunicida	Lumbrineridae	<i>Lumbrineridae</i>	Lumbrineridae	168	0.044	Juvenile, Imago	-	-	-	-	2.3	N.D.(0.96)	2.3	-
					Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Nereididae</i>	Nereididae								2.3			
					Annelida	Polychaeta	Spionida	Cirratulidae	<i>Cirratulida</i>	Polychaeta								2.3			
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon sp.</i>	Palaemon	27	0.015	Juvenile, Imago	-	-	-	N.D.	N.D.(2.5)	N.D.(2.2)	-	
					Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	10	0.044	Juvenile	-	-	-	4.0	N.D.(0.98)	4.0	-	
					Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.056	Juvenile	-	-	-	5.2	N.D.(0.97)	5.2	-	
					Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	25	1.2	Juvenile, Imago	-	-	-	0.62	N.D.(0.29)	0.62	0.073	
					Mollusca	Bivalvia	Veneroidea	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	30	0.066	Juvenile, Imago	-	-	Molluscos part	0.68	N.D.(0.74)	0.68	-	
					Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	10	0.047	Immature fish	-	-	-	N.D.	N.D.(1.2)	N.D.(0.94)	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	6	0.18	Immature fish, Mature fish	-	-	-	1.6	N.D.(0.74)	1.6	-		
				Vertebrata	Osteichthyes	Beloniformes	Hemiramphidae	<i>Japanese halfbeak</i>	Japanese halfbeak	2	0.020	Immature fish	-	-	-	N.D.	N.D.(1.5)	N.D.(1.4)	-		

\*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 (40µm-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.