

Results 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)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
L-2	37.8155°	140.9763°	2017/6/27	13:12	13:50	22.4	22.6	Sand with silt	7.5Y3/1	Plant pieces	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 (mg/L)	TOC (FNU)	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°	2017/6/27	13:12	8.1	1.1	4.5	7.5	4570	29.87	1.9	20	9.7	0.014	0.093	0.00090

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 _{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)			
L-2	37.8155°	140.9763°	2017/6/27	13:50	7.6	227	21.3	1.3	2.2	2.717	0.1	0.3	47.4	44.7	3.1	4.4	0.25	4.8	7.2	63	N.D.(0.12)

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°	2017/6/21		Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.045	-	-	-	3.1	N.D.(1.2)	3.1	-	
						Algae/plant	Chlorophyceae	Ulvales	Ulvaceae	<u>Ulva pertusa</u>	Ulva pertusa	-	0.34	-	-	-	3.20	0.40	2.8	-
						Annelida	Polychaeta	Phyllodocida	Nereididae	<u>Hediste sp.</u>	Hediste	453	0.17	Imago	-	14.8	1.8	13	-	
						Annelida	Polychaeta	Spirionida	Cirratulidae	<u>Cirratulida</u>	Polychaeta				-					
						Arthropoda	Malacostraca	Decapoda	Varunidae	<u>Hemigrapsus sp.</u>	Hemigrapsus	123	0.10	Juvenile,Imago	-	1.7	N.D.(0.57)	1.7	-	
						Arthropoda	Malacostraca	Decapoda	Varunidae	<u>Eriocheir japonica</u>	Japanese mitten crab	1	0.078	Juvenile	-					
						Arthropoda	Malacostraca	Decapoda	Portunidae	<u>Portunus trituberculatus</u>	Japanese blue crab	18	0.23	Juvenile,Imago	-	11.7	1.7	10	-	
						Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	<u>Platycephalus sp.</u>	Flathead	1	0.011	Immature fish	-					
						Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<u>Kareius bicoloratus</u>	Stone flounder	36	0.071	Immature fish	-	3.06	0.36	2.7	-	
						Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<u>Pleuronectidae</u>	Pleuronectidae				-					
						Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<u>Platichthys stellatus</u>	Starry flounder	10	0.026	Immature fish	-	3.1	N.D.(1.7)	3.1	-	
						Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Acanthogobius lactipes</u>	Whitelimbed goby				-					
						Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Tridentiger obscurus</u>	Dusky tripletooth goby	2	0.23	Mature fish	Crab,Shellfish	Viscera removed	1.9	N.D.(0.49)	1.9	-

*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.