

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)	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°	2020/8/25	09:14	09:37	26.7	26.8	Sand	5Y 3/2	Shell fragments	1.8	>1.8

<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	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)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)	(Bq/L)	
L-2	37.8155°	140.9763°	2020/8/25	09:14	8.0	0.9	2.5	7.1	4520	29.43	1.3	3	1.2	N.D.(0.0012)	0.0047	0.00089

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°	2020/8/25	09:37	7.7	324	18.8	1.2	2.4	2.747	2.7	4.6	61.2	29.2	2.3	0.31	9.5	1.1	21	N.D.(0.13)

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°	2020/8/7	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	3.0	N.D.(3.0)	3.0	-	
				2020/8/25	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<u>Zostera marina</u>	Eel grass	-	0.27	-	-	-	0.59	N.D.(0.29)	0.59	-
				2020/8/5	Annelida	Polychaeta	Eunicida	Lumbrineridae	<u>Lumbrineridae</u>	Lumbrineridae	251	0.14	Juvenile,Imago	-	-	N.D.(0.41)	1.8	1.8	-
					Annelida	Polychaeta	Phyllodocida	Nereididae	<u>Nereididae</u>	Nereididae									
					Annelida	Polychaeta	Spiomida	Cirratulidae	<u>Cirratulidae</u>	Polychaeta									
				2020/8/12	Arthropoda	Malacostraca	Decapoda	Varunidae	<u>Hemigrapsus sp.</u>	Hemigrapsus	25	0.053	Juvenile,Imago	-	-	2.4	N.D.(0.86)	2.4	-
				2020/8/12	Arthropoda	Malacostraca	Decapoda	Portunidae	<u>Charybdis japonica</u>	Shore swimming crab	19	0.99	Juvenile,Imago	-	-	0.92	N.D.(0.45)	0.92	0.055
				2020/8/5	Mollusca	Bivalvia	Veneroida	Veneridae	<u>Ruditapes philippinarum</u>	Japanese littleneck	85	0.15	Immature,Imago	-	-	4.2	N.D.(0.40)	4.2	-
					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<u>Paralichthys olivaceus</u>	Bastard halibut	1	0.014	Immature fish	-	-	N.D.	N.D.(4.3)	N.D.(3.6)	-
					Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<u>Lateolabrax japonicus</u>	Japanese sea bass	3	0.024	Immature fish	-	-	N.D.	N.D.(1.8)	N.D.(1.5)	-
				2020/8/7	Vertebrata	Osteichthyes	Perciformes	Sparidae	<u>Acanthopagrus schlegelii</u>	Japanese black porgy	11	0.10	Immature fish	-	-	1.0	N.D.(0.49)	1.0	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Tridentiger obscurus</u>	Dusky tripletooth goby	12	0.023	Immature fish	-	-	N.D.	N.D.(2.2)	N.D.(1.7)	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Favonigobius gymnauchen</u>	Favonigobius gymnauchen									
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Gymnogobius breunigii</u>	Chestnut goby									
				2020/8/5	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Acanthogobius flavimanus</u>	Yellowfin Goby	12	0.12	Immature fish,Mature fish	-	-	0.76	N.D.(0.49)	0.76	-
				2020/8/7	Vertebrata	Osteichthyes	Perciformes	Mugilidae	<u>Mugil cephalus cephalus</u>	Flathead mullet	159	0.85	Immature fish	-	-	3.0			