

● Results of Radioactive Material Monitoring of Aquatic Organisms (Locations L off Soma City)

< Location L off Soma City: Samples collected >

Items locations	General items		radioactive materials			
	Water	Sediment	water (Cs)	water (Sr)	Sediment (Cs)	Sediment (Sr)
L-1	—	○	—	—	○	—
L-2	○	○	○	○	○	○
L-3	○	○	○	○	○	—

< Location L off Soma City: 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	Odor	Contaminants	Water depth (m)	Sacchi disk depth (m)
L-1	37.820933°	140.960917°	2013/9/4	8:12	9:49	—	—	Sand with silt	5Y3/2	None	Shell fragments	—	—
L-2	37.816067°	140.976333°		8:30	9:07	25.3	25.2	Fine sand	5Y4/2	None	None	1.7	1.5
L-3	37.821500°	140.976050°		—	9:23	—	25.1	25.1	Fine sand	5Y4/2	None	Shell fragments	0.6

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

Items Locations	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical 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												
L-2	37.816067°	140.976333°	2013/9/4	8:12	8.0	1.1	3.5	5.7	4,440	27.96	2.1	6	4.6	0.042	0.090	0.0015
L-3	37.821500°	140.976050°		8:30	8.0	0.6	2.9	6.4	4,630	29.23	1.8	2	3.4	0.033	0.071	—

< Location L off Soma City: 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							Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay				Median grain diameter (mm)	Maximum grain diameter (mm)		
											(2-75mm) (%)	(0.85-2mm) (%)	(0.25-0.85mm) (%)	(0.075-0.25mm) (%)	(0.005-0.075mm) (%)	(Less than 0.005mm) (%)							
L-1	37.820933°	140.960917°	2013/9/4	9:49	7.8	156	35.4	3.6	3	2,701	3	1.5	2.9	20.6	47.6	12.7	14.7	0.16	9.5	84	180	—	
L-2	37.816067°	140.976333°		9:07	8.1	186	24.7	1.1	<1	2,734	0.3	0.3	0.5	47.8	46.9	1.1	3.4	0.25	19	27	63	N.D. (<0.24)	—
L-3	37.821500°	140.976050°		9:23	8.1	178	22.0	1.1	<1	2,754	0	0.5	49.5	46.9	0.4	2.7	0.25	2	0.25	13	29	—	—

Note) N.D. means to be below the detection limit.

< Location L off Soma City: Survey items Aquatic organisms >

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note		Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)		
	Latitude	Longitude										Growth stage	Stomach contents					
L-1 L-2 L-3 (Matsukawaura)	37.820933° 37.816067° 37.821500°	140.960917° 140.976333° 140.976050°	2013/9/4	Chlorophyta	Ulvothlyceae	Ulvales	Ulvaaceae	<i>Ulva pertusa</i>	Ulva pertusa	—	0.51	—	—	N.D. (<0.32)	0.53	—		
				Angiospermae	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	—	0.31	—	—	N.D. (<0.29)	N.D. (<0.28)	—		
				Arthropod	Malacostraca	Decapoda	Alpheus	<i>Alpheus</i>	Alpheus	60	0.10	Imago	—	—	—	2.1	4.6	—
				Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon sp.</i>	Palaemon	97	0.068	Imago	—	—	—	1.5	3.1	—
				Arthropod	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	20	0.88	Imago	—	—	—	1.6	3.6	—
				Annelida	Polychaeta	—	—	<i>Polychaeta</i>	Polychaetes	241	0.020	Imago	—	—	—	N.D. (<3.1)	6.9	—
				Mollusca	Bivalvia	Pterioda	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster (shell)	43	2.6	Imago	—	—	—	1.9	4.1	—
				Mollusca	Bivalvia	Pterioda	Ostreidae	—	Japanese oyster (molluscan part)	—	0.80	—	—	—	—	0.71	1.6	—
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck (shell)	64	1.0	Imago	—	—	—	0.46	1.1	—
				Mollusca	Bivalvia	Veneridae	Veneridae	—	Japanese littleneck (molluscan body)	—	0.48	—	—	—	—	0.77	1.6	—
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectidae</i>	Pleuronectidae	9	0.026	Immature fish	—	—	—	1.4	3.2	—
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gobiidae</i>	Gobiidae	43	0.16	Immature fish	—	—	—	1.7	3.6	—
				Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Liza haematocheilus</i>	Haarder	1	0.40	2-year-old fish	—	—	—	1.4	3.6	—

Note 1) When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

Note 2) For species with stomach contents as indicated in the note column, all stomach contents were removed for conducting the analysis.

Note 3) Underlined names in the English name column indicate species largest in number in the respective samples.

Note 4) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

Note 5) N.D. means to be below the detection limit.