

○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-1	—	○	—	—	○	—
L-2	○	○	○	○	○	○
L-3	○	○	○	—	○	—

< Location L off Soma City: Site measurement item >

Items	Survey date and time			Latitude and longitude of the location		Water		Sediment				Other	
	Date	Time(Water)	Time(Sediment)	Latitude	Longitude	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Transparency (m)
L-1	2012/12/10	—	9:48	37.820983°	140.960950°	—	6.6	Silt with fine sand	7.5Y-3/2	Faint hydrogen sulfide	Shell	2.5	2.5 (Drifting to the bottom)
L-2	2012/12/10	8:22	8:45	37.815517°	140.976333°	9.5	8.6	Fine sand	5Y-3/2	None	Shell	1.5	1.5 (Drifting to the bottom)
L-3	2012/12/10	9:08	9:17	37.821683°	140.976500°	9.5	8.8	Fine sand	7.5Y-3/1	None	Shell	0.5	0.5 (Drifting to the bottom)

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

Items	Survey date and time		Latitude and longitude of the location		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)
	Date	Time	Latitude	Longitude												
L-2	2012/12/10	8:22	37.815517°	140.976333°	8.0	0.6	1.9	9.2	4.870	32.57	0.5	4	1.2	0.017	0.029	0.0016
L-3	2012/12/10	9:08	37.821683°	140.976500°	8.1	<0.5	2.6	9.1	4.930	32.84	0.8	5	1.2	0.019	0.030	—

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

Items	Survey date and time		Latitude and longitude of the location		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)		
	Date	Time	Latitude	Longitude							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-1	2012/12/10	9:48	37.820983°	140.960950°	7.6	53	43.2	5.9	12	2.641	0.0	0.3	10.3	42.7	19.7	27.0	0.110	4.75	340	550	
L-2	2012/12/10	8:45	37.815517°	140.976333°	7.8	59	25.9	1.9	<1	2.687	—	0.1	8.0	86.5	1.8	3.6	0.170	2.00	25	41	N.D.(<0.21)
L-3	2012/12/10	9:17	37.821683°	140.976500°	7.5	120	27.6	1.4	<1	2.698	—	0.2	22.9	67.6	3.5	5.8	0.190	2.00	23	40	—

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

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

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)	Note				
		Latitude	Longitude												Growth stage	Stomach contents			
L-1 L-2 L-3 (Matsukawaura)	2012/12/10	37.820983°	140.960950°	Angiospermae	Monocotyledoneae	Najadales	Zostera marina	<i>Zostera marina</i>	Eel grass	—	—	0.25	N.D.(<0.48)	N.D.(<0.42)	—	—	—		
				Chlorophyta	Ulvophyceae	Ulvales	Ulva pertusa	<i>Ulva pertusa</i>	Ulva	—	—	—	0.55	N.D.(<0.90)	N.D.(<0.92)	—	—	—	
				Chlorophyta	Ulvophyceae	Ulotrichales	Monostroma nitidum	<i>Monostroma nitidum</i>	Monostroma nitidum Wittrock	—	—	—	1.2	N.D.(<0.90)	1.6	—	—	—	
				Arthropoda	Malacostraca	Decapoda	Hemigrapsus penicillatus	<i>Hemigrapsus penicillatus</i>	Hemigrapsus penicillatus	120	0.17	5.5	9.1	—	—	—	—	Adult	—
				Mollusca	Bivalvia	Pterionida	Crassostrea gigas	<i>Crassostrea gigas</i>	Japanese oyster (shell)	Many	2.3	23	40	0.58	—	—	—	Adult	—
				Mollusca	Bivalvia	Veneroidea	Ruditapes philippinarum	<i>Ruditapes philippinarum</i>	Japanese littleneck (shell)	Many	0.49	1.2	2.0	—	—	—	2.2	Adult	—
				Mollusca	Bivalvia	Veneroidea	Ruditapes philippinarum	<i>Ruditapes philippinarum</i>	Japanese littleneck (shell)	Many	1.4	1.4	2.3	—	—	—	—	Adult	—
				Mollusca	Bivalvia	Veneroidea	Ruditapes philippinarum	<i>Ruditapes philippinarum</i>	Japanese littleneck (molluscous part)	Many	0.52	3.3	6.1	—	—	—	—	Adult	—
				Vertebrata	Osteichthyes	Perciformes	Acanthogobius flavimanus	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	5	0.092	3.0	5.6	—	—	—	—	Mature fish	—

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