

○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	Latitude and longitude of the location		Survey date and time		Water		Sediment			Other		
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)	Water temperature	Sediment temperature	Property	Color	Contaminants	Water depth(m)	Transparency (m)
L-1	37.8210°	140.9610°	2015/8/20	-	9:22	-	24.6	Fine sand with silt	10Y3/1	None	-	-
L-2	37.8155°	140.9763°		8:05	8:45	24.3	24.5	Sand	2.5Y3/3	Shell/plant	1.8	>1.8
L-3	37.8217°	140.9765°		7:50	9:08	24.4	24.5	Fine sand with silt	10Y3/1	Shell/plant	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 (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)
	Scheduled latitude	Scheduled longitude	Date	Time (water)												
L-2	37.8155°	140.9763°	2015/8/20	8:05	8.1	<0.5	2.3	6.6	5040	32.27	1.0	4	0.8	0.0038	0.015	0.0014
L-3	37.8217°	140.9765°		7:50	8.1	0.5	2.6	6.8	5030	32.20	1.2	5	2.1	0.0062	0.023	-

< 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 EN.H.E (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)	
	Scheduled latitude	Scheduled 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 (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter				Maximum grain diameter
L-1	37.8210°	140.9610°	2015/8/20	9:22	7.8	-72	33.9	3.4	6.4	2.699	2.1	5.2	24.6	37.6	14.1	16.4	0.16	9.5	45	160	-
L-2	37.8155°	140.9763°		8:45	7.7	102	20.4	1.1	1.4	2.746	1.5	7.1	80.9	9.1	0.5	0.9	0.42	9.5	1.4	6.2	N.D.(0.15)
L-3	37.8217°	140.9765°		9:08	7.8	125	26.8	1.3	2.5	2.715	0.0	0.5	54.4	37.7	2.9	4.5	0.27	4.8	8.1	36	-

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

Location	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Species 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	Cs-134	Cs-137			
L-1 L-2 L-3	Matsukawaura	37.8210° 37.8155° 37.8217°	140.9610° 140.9763° 140.9765°	2015/8/20	Phycophyta	-	-	-	-	Plankton (Planktonic algae)	-	0.016	-	-	-	2.3	8.9	-		
					Angiospermae	Monocotyledonae	-	Zosteraceae	Zostera marina	eel grass	-	1.3	-	-	-	0.63	2.8	-		
					Arthropod	Malacostraca	Mysida	Mysidae	-	Mysid shrimp	-	0.16	Imago	-	-	-	N.D.(0.58)	1.3	-	
					Arthropod	Malacostraca	Decapoda	Varunidae	-	Hemigrapsus	126	0.17	Imago	-	-	-	N.D.(0.60)	2.1	-	
					Mollusca	Bivalvia	Ostreoida	Ostreidae	Crassostrea gigas	Oyster	27	0.38	Imago	-	-	-	Molluscan body	0.50	1.5	-
					Mollusca	Bivalvia	Veneroida	Veneridae	Ruditapes philippinarum	Japanese littleneck	91	0.35	Imago	-	-	-	Molluscan body	0.31	1.1	-
					Vertebrata	Osteichthyes	Perciformes	Sparidae	Acanthopagrus schlegelii	Japanese black porgy	3	0.036	Immature fish (0-year-old)	-	-	-	N.D.(1.1)	2.8	-	
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gymnogobius breunigii	Chestnut goby	9	0.015	Immature/mature fish (0-year-old)	-	-	-	N.D.(2.5)	3.2	-	
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Acanthogobius flavimanus	Yellowfin Goby	9	0.015	Immature/mature fish (0-year-old)	-	-	-	N.D.(2.5)	3.2	-	
					Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	Mugil cephalus cephalus	Flathead mullet	13	0.18	Immature fish (0-year-old)	-	-	-	2.8	12	-	

*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 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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: 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.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*9: Activity concentrations include counting errors, but the details are omitted here.