OResults of Radioactive Material Monitoring of Aquatic Organisms (Location L off Soma City)

<Location L off Soma City: Samples collected>

	7 1										
Items	Genera	al items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
L-2	0	0	0	0	0	0					

<Location L off Soma City: Site measurement item>

-Eccution E on bonia Cit												
Items		ongitude of the		Survey date and time Water Sediment				ment		Other		
Locations	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°	2022/8/29	10:50	11:16	24.6	24.3	Sand	7.5Y3/2	Shells	1.9	1.0

<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
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
L-2	37.8155°	140.9763°	2022/8/29	10:50	7.9	0.9	4.1	6.6	3930	26.24	1.9	19	9.2	N.D.(0.0015)	0.019	0.00086

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>

Itame	Latitude and l	longitude of the	Sugran da	te and time										Grain si	ze distribution						i
nems	location		Survey dat	ite and time	pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		E _{N.H.E}				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			ı
Locations	Lautude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
L-2	37.8155°	140.9763°	2022/8/29	11:16	7.8	417	20.8	1.1	2.5	2.690	2.3	10.9	66.0	14.2	2.8	3.8	0.43	9.5	0.94	29	N.D.(0.15)

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>

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Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude	. 0				,			1	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
	Matsukawaura Lagoon				Arthropoda	Malacostraca	Decapoda	Varunidae	Hemigrapsus sp.	Hemigrapsus	54	0.061	Juvenile,Imago	-	-	1.5	N.D.(0.59)	1.5	-
* 4		25.02400			Arthropoda	Malacostraca	Decapoda	Portunidae	Charybdis japonica	Shore swimming crab	11	0.66	Juvenile,Imago	-	-	0.36	N.D.(0.37)	0.36	0.13
L-1 L-2		37.8210° 37.8155°	140.9610° 140.9763°	2022/8/18	Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	Hexagrammos otakii	Fat greenling	6	0.47	Immature fish	Ragworm, Shellfish, Crustacea	Viscera removed	0.52	N.D.(0.27)	0.52	-
L-2 L-3		37.8217°	140.9765°	2022/0/10	Vertebrata	Osteichthyes	Perciformes	Gobiidae	Acanthogobius flavimanus	Yellowfin Goby	5	0.13	Mature fish	-	-	0.67	N.D.(0.37)	0.67	-
2.7		37.0217	110.5705		Vertebrata	Osteichthyes	Perciformes	Mugilidae	Mugil cephalus cephalus	Flathead mullet	19	0.12	Immature fish	-	-	19	N.D.(1.9)	19	-
					Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu niphobles	Takifugu niphobles	1	0.053	Mature fish	-	-	0.82	N.D.(0.73)	0.82	-

*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.

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

*6: 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.

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

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