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

## <Location L off Soma City: Samples collected>

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>

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Items		longitude of the ation	Survey date and time			Water		Sedi	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°	2021/10/25	10:48	11:03	19.0	19.0	Sand	7.5Y4/2	Shell fragments	1.0	>1.0	

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

Iter	s .	I longitude of the cation	Survey date and time		pН	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°	2021/10/25	10:48	8.1	0.6	1.8	8.9	4830	32.50	1.2	3	1.8	N.D.(0.0015)	0.017	0.00080

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 longitude of the location		Survey date and time								Grain size distribution																		
itens					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	Lancituda	Date	Time (cadiment)		E <sub>N.H.E</sub>				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											
Locations					Longitude	Date	Date	Date	Date	Date	Date	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm <sup>3</sup> )	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)
L-2	37.8155°	140.9763°	2021/10/25	11:03	7.7	234	22.2	1.7	3.9	2.711	0.4	1.3	40.7	43.3	5.0	9.3	0.21	4.8	2.9	73	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>

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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		Rac	et)	Sr-90			
		Latitude	Longitude					. 1		-	·	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)		
				2021/10/21	Algae/plant	1	1	1	-	Plankton (Planktonic algae)	-	0.013	-	ı	-	14	N.D.(2.8)	14	-		
						2021/10/25	Mollusca	Bivalvia	Ostreoida	Ostreidae	Crassostrea gigas	Oyster	10	0.19	Juvenile,Imago	1	Molluscous part	0.33	N.D.(0.40)	0.33	-
L-1	M-41	37.8210°	140.9610°	2021/10/23	Mollusca	Bivalvia	Veneroida	Veneridae	Ruditapes philippinarum	Japanese littleneck	30	0.11	Imago	1	Molluscous part	0.80	N.D.(0.40)	0.80	-		
L-2	Matsukawaura Lagoon	37.8155°	140.9763°		Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	Hexagrammos otakii	Fat greenling	1	0.030	Immature fish	Shrimp	Viscera removed	N.D.	N.D.(1.6)	N.D.(1.2)	-		
L-3	Lagoon	37.8217°	140.9765°	2021/10/21	Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	Sebastes cheni	Rockfish	11	0.12	Immature fish	-	-	0.64	N.D.(0.44)	0.64	-		
					2021/10/21	Vertebrata	Osteichthyes	Perciformes	Mugilidae	Mugil cephalus cephalus	Flathead mullet	15	0.15	Immature fish	-	-	9.14	0.44	8.7	-	
					Vertebrata	Osteichthyes	Perciformes	Sebastidae	Sebastes schlegelii	Black rockfish	1	0.19	Immature fish	Crab	Viscera removed	0.70	N.D.(0.35)	0.70	-		

<sup>\*1:</sup> Organisms were collected in or around the targeted water areas.

<sup>\*2:</sup> When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

<sup>\*3:</sup> For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

<sup>\*4:</sup> Basically, measurement was conducted for all organism samples. Viscera (stornach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

<sup>\*5:</sup> Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40 $\mu$ m-mesh).

<sup>\*6:</sup> 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.

<sup>\*7:</sup> N.D. means to be below the detection limit and figures in parentheses show the detection limit.

 $<sup>{\</sup>bf *8:}\ Activity\ concentrations\ include\ counting\ errors, but\ the\ details\ are\ omitted\ here.$