OResults of Radioactive Material Monitoring of Aquatic Organisms (Location K off the mouth of the Abukuma River)

<Location K off the mouth of the Abukuma River: Samples collected>

Items	Genera	al items		Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)						
K-1	-	0	-	-	0	-						
K-2	0	0	0	0	0	0						
K-3	-	0	-	-	0	-						

<Location K off the mouth of the Abukuma River: Site measurement item>

Items		ongitude of the	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	
K-1	38.0457°	140.9282°		-	09:01	-	18.5	Sand	10YR5/1	None Juvenile shellfish	16.2	-	
K-2(Surface layer)	38.0455°	140.9401°	2016/10/26	08:07	08:40	18.4	18.3	Silt with fine sand	10YR3/1			3.5	
K-2(Bottom layer)	36.0433	140.9401	2010/10/20	07:50	08.40	18.9	16.5	Siit with time sand	101 K3/1	Juvenne snemisn	10.2	3.3	
K-3	38.0458°	140.9518°		-	08:30	-	18.3	Silt	7.5Y3/1	None	-	-	

<Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Water>

Items		Latitude and longitude of the location		te 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)
K-2(Surface layer)	38.0455°	140.9401°	2016/10/26	08:07	8.1	0.8	1.7	8.1	4540	24.26	0.9	3	2.3	N.D.(0.0016)	0.0085	-
K-2(Bottom layer)	36.0433	140.9401°	2010/10/20	07:50	8.1	0.6	1.6	6.4	5030	33.50	0.9	11	5.8	0.0023	0.015	0.00081

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Sediment>

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Itame	Latitude and l	Latitude and longitude of the		Survey data and time							Grain size distribution										
Itelis	loca	tion	Survey date 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
Y	Y selection	Y Start.	Dete	T: (I:		$E_{N,H,E}$				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			
Locations	Latitude	Longitude Date	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-1	38.0457°	140.9282°		09:01	8.0	278	24.5	1.3	1.0	2.749	0.1	0.7	35.2	59.5	0.7	3.8	0.21	4.8	7.2	39	-
K-2	38.0455°	140.9401°	2016/10/26	08:40	7.9	273	37.3	3.4	3.7	2.721	0.0	-	2.3	61.5	22.8	13.4	0.12	0.43	22	130	N.D.(0.13)
K-3	38.0458°	140.9518°		08:30	7.7	273	50.2	6.2	9.8	2.705	0.0	0.0	0.2	18.1	59.7	22.0	0.045	2.0	44	270	-

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location K off the mouth of the Abukuma River: Analysis items Aquatic organisms>

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Rad	ioactive cesium (Bq/kg-w	ret)	Sr-90
		Latitude	Longitude] ' "				´			•	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
G 1: .					Arthropoda	Malacostraca	Decapoda	Portunidae	Portunus trituberculatus	Japanese blue crab	3	1.2	Imago	-	-	0.48	N.D.(0.31)	0.48	-
Surrounding water				1	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Kareius bicoloratus	Stone flounder	2	2.2	Immature fish,Mature fish	Ragworm	Viscera removed	0.71	N.D.(0.39)	0.71	N.D.(0.016)
area off the mouth of	-	- '	_	2016/10/25	Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	1	1.7	Mature fish	Anchovy	Viscera removed	1.0	N.D.(0.38)	1.0	-
the Abukuma River			1		Vertebrata	Osteichthyes	Perciformes	Sciaenidae	Nibea mitsukurii	Nibe croaker	3	1.3	Mature fish	Isopods	Viscera removed	1.56	0.36	1.2	-
the Housama Kiver				[Vertebrata	Osteichthyes	Perciformes	Carangidae	Seriola quinqueradiata	Japanese amberjack	1	2.7	Mature fish	Fish	Viscera removed	0.48	N.D.(0.29)	0.48	-

*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.

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

*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.

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