○Results 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 / Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
K-3	○	○	○	○	○	○

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

Items / Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other	
	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-3(Surface layer)	38.0458°	140.9518°	2020/12/7	08:34	08:50	12.9	13.5	Sand with silt	5Y 3/2	Shell fragments	20.9	6.5
K-3(Bottom layer)				08:20		13.9						

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

Items / Locations	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
	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-3(Surface layer)	38.0458°	140.9518°	2020/12/7	08:34	8.1	0.6	1.8	9.2	4830	32.28	1.0	1	1.1	N.D.(0.0013)	0.0031	-
K-3(Bottom layer)				08:20	8.0	<0.5	1.3	9.2	5000	33.59	0.9	2	1.1	N.D.(0.0013)	0.0038	0.00077

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>

Items / Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential $E_{N.H.E}$ (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)
											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)			
	Latitude	Longitude	Date	Time (sediment)																	
K-3	38.0458°	140.9518°	2020/12/7	08:50	7.8	261	32.6	4.1	5.5	2.702	-	0.1	0.7	46.0	40.1	13.1	0.070	2.0	6.0	130	N.D.(0.13)

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 (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
Surrounding water area off the mouth of the Abukuma River	Sea area in front of the Abukuma River Estuary	—	—	2020/12/6	Mollusca	Bivalvia	Veneroida	Mactridae	*Pseudocardium sachalinense*	Sakhalin surf clam	2	0.22	Imago	-	Molluscous part	N.D.	N.D.(0.33)	N.D.(0.30)	-
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pleuronectes herzensteini*	Yellow striped flounder	5	0.45	Immature fish	Crab	Viscera removed	N.D.	N.D.(0.26)	N.D.(0.25)	-
					Vertebrata	Osteichthyes	Perciformes	Sebastidae	*Sebastes schlegelii*	Black rockfish	1	0.59	Mature fish	Obscure digesta	Viscera removed	0.50	N.D.(0.41)	0.50	-

*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.

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