

○ 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-1	○	○	○	○	○	○
K-2	○	○	○	○	○	○
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	Odor	Contaminants	Water depth (m)	Secchi disk depth (m)		
K-1	38.045733°	140.938500°	2013/7/22	—	9:30	—	20.4	—	5Y4/3	None	None	—	—		
K-2	38.045633°	140.939850°	2013/7/22	8:52	9:11	22.1	17.3	Fine sand	5Y4/3	None	Shell	14.7	2.6		
K-3	38.045917°	140.951983°	2013/7/22	—	8:13	—	12.6	Clay with sand	10Y2/1	Sediment smell	None	—	—		

<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 (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)	
	Latitude	Longitude	Date	Time													
K-2 (Surface layer)	38.045633°	140.939850°	2013/7/22	8:52	8.4	1.8	2.1	9.7	4,060	—	26.42	2.3	6	4.7	0.0073	0.016	—
K-2 (Deep layer)	38.045633°	140.939850°	2013/7/22	8:41	8.1	0.7	1.4	7.8	5,040	—	32.35	1.2	2	1.1	0.017	0.035	0.0021

<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 _{NHLE} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution					Median grain diameter (mm)	Maximum grain diameter (mm)	Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
	Latitude	Longitude	Date	Time							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) (%)
K-1	38.045733°	140.938500°	2013/7/22	9:30	7.6	186	21.0	1.3	2,696	0	15.8	66.4	15.8	0.8	1.2	0.50	2	8.4	23	—	
K-2	38.045633°	140.939850°	2013/7/22	9:11	7.7	175	30.7	2.4	2,765	0	0.1	1.3	74.7	10.5	0.12	2	39	84	N.D. (<0.15)		
K-3	38.045917°	140.951983°	2013/7/22	8:13	7.7	-11	56.3	8.0	14	2,688	0	0	0.1	5.4	51.3	43.2	0.0071	2	420	920	—

Note) N.D. means to be below the detection limit.

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

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note		Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)
	Latitude	Longitude										Growth stage	Stomach contents			
Surrounding water area off the mouth of the Abukuma River	—	—	2013/7/18	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Ovalipes punctatus</i>	Ovalipes punctatus	5	0.96	Imago	—	N.D. (<0.43)	0.50	—
				Vertebrata	Osteichthyes	Marbled rockfish	Fat greenling	<i>Hexagrammos otakii</i>	Fat greenling	17	3.7	Mature fish	Crustacean fragments	0.49	1.2	N.D. (<0.019)
				Vertebrata	Osteichthyes	Marbled rockfish	Gurnard	<i>Chelidonichthys spinosus</i>	Gurnard	12	3.8	Mature fish	Shrimps, small fish	1.6	3.3	—
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Pseudopleuronectes herzensteini</i>	Brown sole	8	2.6	4-year-old fish	Small fish	0.88	1.4	N.D. (<0.014)
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Karenus bicoloratus</i>	Stone flounder	8	3.9	1-year-old fish	Small fish	0.45	0.97	N.D. (<0.012)
				Vertebrata	Osteichthyes	Righteye flounder	Flounder	<i>Paralichthys olivaceus</i>	Flounder	7	4.1	2-year-old fish	Some (details unknown)	3.4	7.3	N.D. (<0.015)
				Vertebrata	Osteichthyes	Perciformes	Lateolabridae	<i>Lateolabrax japonicus</i>	Japanese sea bass	3	5.5	5-year-old fish	Fish	4.4	9.0	0.051

Note 1) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

Note 2) N.D. means to be below the detection limit.