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

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

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

Items Latitude and longitude of the location				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-3(Surface layer)	38.0458°	140.9518°	2019/6/19	08:45	09:03	19.1	12.2	Silt with sand	5Y3/1	Shells,Plant pieces	20.4	5.2
K-3(Bottom layer)	56.0458	140.9518°	2019/6/19	08:24	09:03	12.9	12.2	Sint with Sand	513/1	silens,r iant pieces	20.4	5.2

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

Items	Latitude and longitude of the location		Survey date and time		рН	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-3(Surface layer)		140.9518°	2019/6/19	08:45	8.1	<0.5	4.2	8.4	2500	18.56	1.8	5	3.8	N.D.(0.0014)	0.0090	-
K-3(Bottom layer)	38.0458°	140.9518	2019/6/19	08:24	8.0	<0.5	2.0	8.4	4910	33.46	1.1	6	5.5	N.D.(0.0015)	0.0092	0.0010

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>

Itame	Items Latitude and longitude of the location		Survey date and time								Grain size distribution									· · · · · ·	
ricins					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	Data	Time (adiment)		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			1
Locations	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm <sup>3</sup> )	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-3	38.0458°	140.9518°	2019/6/19	09:03	7.7	262	55.2	6.5	13.6	2.662	0.0	0.1	0.2	11.1	78.7	9.9	0.030	2.0	21	300	N.D.(0.13)
Note) N.D. means to be below	Not) N.D. means to be below the detection limit and figures in parentheses show the detection limit.																				

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## <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	wet)	Sr-90	
	Latitude	Latitude	Longitude					,				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
					Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	Sebastes cheni	Rockfish	2	0.29	Immature fish	Shrimp	Viscera removed	N.D.	N.D.(0.47)	N.D.(0.45)	-
Surrounding water area	Sea area in front of the Abukuma	_		2019/6/7	Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	Lateolabrax japonicus	Japanese sea bass	1	0.97	Immature fish	Empty stomach	Viscera removed	0.58	N.D.(0.28)	0.58	-
off the mouth of the Abukuma River	River Estuary	-		2019/0/7	Vertebrata	Osteichthyes	Perciformes	Sparidae	Acanthopagrus schlegelii	Japanese black porgy	1	1.3	Mature fish	Empty stomach	Viscera removed	0.55	N.D.(0.29)	0.55	0.062
					Vertebrata	Osteichthyes	Perciformes	Sebastidae	Sebastes schlegelii	Black rockfish	1	1.4	Mature fish	Empty stomach	Viscera removed	0.29	N.D.(0.32)	0.29	-

\*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.