

◎Results of Radioactive Material Monitoring of Aquatic Organisms (Locations A and B along the Abukuma River)

< Locations A and B along the Abukuma River: Samples collected >

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
A-1	○	○	○	○	○	○
A-2	○	○	○	—	○	—
B-1	○	○	○	—	○	—
B-2	○	○	○	—	○	—
B-3	○	○	○	—	○	—

< Locations A and B along 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)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (cm)
A-1 (Surface layer)	37.621000°	140.521783°		9:50	8:55	21.9	21.3	Sediment with sand	2.5Y3/2	Leaves, roots, branches	7.15	47.0 (1.1m)*
A-1 (Deep layer)	37.567333°	140.394567°	2014/6/24	9:30		21.7		Sand	10YR4/3	Pebbles	0.77	>50.0
A-2	37.784333°	140.492417°		11:50	12:02	19.1	19.2	Sediment with sand	2.5Y3/2	Roots, pebbles	0.30	37.5
B-1	37.784333°	140.492417°		16:19	16:28	23.2	23.0	Fine sand	2.5Y4/3	Plant	0.41	43.0
B-2	37.812100°	140.505783°		15:11	15:26	21.9	21.4	Sand	2.5Y4/3	Pebbles	0.42	>50.0
B-3	37.818200°	140.467883°		13:59	14:06	19.2	19.3					

* The numbers in () indicates the degree of transparency

< Locations A and B along 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												
A-1 (Surface layer)	37.621000°	140.521783°		9:50	7.7	1.2	4.3	8.9	16.4	0.09	2.1	14	6.0	0.025	0.068	0.0012
A-1 (Deep layer)	37.567333°	140.394567°	2014/6/24	9:30	7.5	1.2	4.8	9.1	17.9	0.09	2.1	13	5.7	0.024	0.059	—
A-2	37.784333°	140.492417°		11:50	7.5	0.6	3.2	9.6	10.9	0.06	1.2	17	4.4	0.029	0.077	—
B-1	37.784333°	140.492417°		16:19	7.5	0.8	4.5	9.7	16.7	0.09	2.0	12	7.0	0.024	0.061	—
B-2	37.812100°	140.505783°		15:11	7.5	1.2	4.3	9.3	16.2	0.08	1.8	12	6.7	0.096	0.26	—
B-3	37.818200°	140.467883°		13:59	7.6	0.7	3.0	9.9	8.0	0.05	1.2	4	2.3	0.0060	0.015	—

< Locations A and B along 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 _{H2} (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)	
	Latitude	Longitude	Date	Time							Gravel (2-7.5mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.003-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)		
A-1	37.621000°	140.521783°		8:55	6.8	110	28.1	2.7	10.1	2.717	1.1	7.9	54.9	15.5	7.3	13.3	0.34	19	140	400
A-2	37.567333°	140.394567°	2014/6/24	12:02	6.6	12	17.8	1.8	6.1	2.788	32.1	34.6	26.9	3.6	1.1	1.7	1.3	19	83	220
B-1	37.784333°	140.492417°		16:28	7.1	98	24.0	2.1	3.4	2.707	7.2	36.2	16.4	22.2	7.5	10.5	0.40	95	280	860
B-2	37.812100°	140.505783°		15:11	7.0	130	27.0	2.2	2.1	2.754	1.5	7.3	63.2	24.1	1.5	2.4	0.35	19	110	280
B-3	37.818200°	140.467883°		14:06	6.7	76	18.4	1.2	1.5	2.689	50.4	34.2	13.0	1.5	0.2	0.7	2.0	19	37	120

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

