

○ Results of Radioactive Material Monitoring of Aquatic Organisms (Location B along the Abukuma River)

< Location B along the Abukuma River: Samples collected >

Items Locations	General items		Radioactive materials			
	Water	Sediment	water (Cs)	water (Sr)	Sediment (Cs)	Sediment (Sr)
B-1	—	○	—	—	○	—
B-2	—	○	—	—	○	—
B-3	○	○	○	○	○	○
B-4	—	○	—	—	○	—
B-5	○	○	○	○	○	○

< Location B along the Abukuma River: Site measurement item >

Items Locations	Survey date and time	Latitude and longitude of the location		Water	Sediment				Other			
		Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Transparency	Water depth	
B-1	2011/12/27	13:28	37.70622	140.49793	3.3	3.9	Sand gravel	Olive black	None	Fallen leaves	>50	0.43
B-2		12:31	37.71780	140.47797	3.0	2.4	Sand	Olive black	None	Fallen leaves	>50	0.32
B-3		11:20	37.74507	140.46555	5.0	5.3	Sand	Olive black	None	Fallen leaves	>50	0.40
B-4		9:45	37.78433	140.49242	2.9	3.0	Sand/sediment	Olive black	None	Fallen leaves	>50	0.26
B-5		8:46	37.81210	140.50578	3.3	4.0	Sand/sediment	Olive black	None	Fallen leaves	>50	0.40

< Location B along the Abukuma River: Analysis items Water >

Items Locations	Survey date and time	Latitude and longitude of the location		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90	
		Latitude	Longitude	-	(mg/L)	(mg/L)	(mg/L)	(mS/m)	-	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)	
B-1	2011/12/27	13:28	37.70622	140.49793	-	-	-	-	-	-	-	-	-	-	-	
B-2		12:31	37.71780	140.47797	-	-	-	-	-	-	-	-	-	-	-	
B-3		11:20	37.74507	140.46555	7.1	0.6	1.6	12.7	29.9	0.14	0.6	6	2.2	0.079	0.10	0.00084
B-4		9:45	37.78433	140.49242	-	-	-	-	-	-	-	-	-	-	-	-
B-5		8:46	37.81210	140.50578	7.4	0.9	2.0	13.0	18.8	0.09	0.8	1	1.4	0.032	0.042	0.0016

< Location B along the Abukuma River : Analysis items Sediment >

Items Locations	Survey date and time	Latitude and longitude of the location		pH	Redox potential E <sub>SHLE</sub> (mV)	Water content (%)	IL (%)	TOC mg/g.dry	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
		Latitude	Longitude							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)				
B-1	2011/12/27	13:28	37.70622	140.49793	7.0	464	29.7	1.8	2.707	10.8	13.3	34.7	36.9	3.0	1.3	0.3046	19	270	390	—	
B-2		12:31	37.71780	140.47797	7.0	445	27.6	0.9	<1	2.931	—	0.9	53.6	44.2	0.8	0.2632	2	290	400	—	
B-3		11:20	37.74507	140.46555	6.8	480	28.2	2.3	<1	2.680	34.1	20.2	40.9	3.9	0.6	0.3	0.9844	19	98	140	0.11
B-4		9:45	37.78433	140.49242	6.9	339	40.8	3.3	7	2.696	47.1	9.6	16.3	19.6	5.0	2.4	1.6897	19	350	500	—
B-5		8:46	37.81210	140.50578	7.1	404	30.4	1.7	1	2.699	2.7	3.8	59.9	31.0	1.7	0.9	0.3100	9.5	260	340	0.15

< Location B along the Abukuma River: Analysis items Aquatic organisms >

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg.wet)	Cs-134 (Bq/kg.wet)	Cs-137 (Bq/kg.wet)	Sr-90 (Bq/kg.wet)	*Stomach contents
		Latitude	Longitude												
B-6	2012/1/12	37.81820	140.46788	—	—	—	—	—	CPOM	—	3	480	640	—	—
				Arthropoda	Insecta	Ephemeroptera	EphemereIIDae	<i>Drunella basalis</i>	Drunella basalis	Many (approx. 700)	0.2	160	170	—	—
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimura tibialis</i>	Kamimura tibialis						
				Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Hydropsyche orientalis</i>	Hydropsyche orientalis						
Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata										
B-5	2011/12/27	37.81210	140.50578	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.045	74	81	—	unknown
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbuis</i>	Hemibarbus barbuis	1	1.49	150	200	—	unknown
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.49	—	—	0.41	unknown
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.04	280	400	—	unknown