

○ Results of Radioactive Material Monitoring of Aquatic Organisms (Location D in Lake Akimoto)

<Location D in Lake Akimoto: Samples collected>

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

<Location D in Lake Akimoto: 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	Secchi disk depth	Water depth	
D-1	2011/12/21	9:10	37.65507	140.11805	2.1	4.4	Sediment	Faint gray	None	Dead leaves	Drifting to the bottom	4.4
D-2		9:40	37.65753	140.12643	—	4.1	Sediment	Faint gray	None	None	3.8	14.3
D-3		10:40	37.66155	140.12255	—	4.0	Sediment	Faint gray	None	Aquatic weeds	Drifting to the bottom	4.0
D-4		10:00	37.66533	140.13293	3.2	3.8	Sand/sediment	Light dark brown	None	Aquatic weeds	Drifting to the bottom	4.2
D-5		10:15	37.65233	140.15683	—	3.1	Sand/sediment	Light dark brown	None	Wood chips	Drifting to the bottom	2.2

<Location D in Lake Akimoto: Analysis items Water>

Items Locations	Survey date and time	Latitude and longitude of the location		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													
D-1	2011/12/21	9:10	37.65507	140.11805	-	-	-	-	-	-	-	-	-	-	-	
D-2		9:40	37.65753	140.12643	7.3	<0.5	2.0	11.5	6.2	0.03	1.3	<1	1.0	0.033	0.042	0.0018
D-3		10:40	37.66155	140.12255	-	-	-	-	-	-	-	-	-	-	-	-
D-4		10:00	37.66533	140.13293	7.2	<0.5	2.1	11.2	5.9	0.03	1.0	<1	1.2	0.038	0.047	0.0019
D-5		10:15	37.65233	140.15683	-	-	-	-	-	-	-	-	-	-	-	-

<Location D in Lake Akimoto: Analysis items Sediment>

Items Locations	Survey date and time	Latitude and longitude of the location		pH	Redox potential E <sub>NHE</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)	
D-1	2011/12/21	9:10	37.65507	140.11805	6.3	92	59.4	6.8	27	2.583	0.6	1.4	4.8	10.4	55.1	27.7	0.0151	4.75	130	180	—
D-2		9:40	37.65753	140.12643	6.7	18	62.4	6.8	16	2.613	1.0	0.2	0.4	0.4	65.2	32.8	0.0097	4.75	16	38	1.8
D-3		10:40	37.66155	140.12255	6.4	28	66.3	7.8	23	2.564	2.2	2.5	4.9	5.9	56.1	28.4	0.0149	4.75	280	380	—
D-4		10:00	37.66533	140.13293	6.3	102	70.7	9.2	54	2.446	—	0.1	1.3	32.7	43.9	22.0	0.0357	2	1,300	1,800	1.6
D-5		10:15	37.65233	140.15683	6.3	159	46.3	4.2	12	2.661	1.9	3.5	19.7	42.1	22.0	10.8	0.1384	9.5	410	560	—

<Location D in Lake Akimoto: 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												
D-2 D-3	2011/12/21	37.65753	140.12643	Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	74	5	82	98	—	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	0.3	73	100	—	Unknown
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	9	1	81	97	—	Unknown
		37.66155	140.12255	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	2.5	76	91	1.1	Unknown
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2	190	260	—	Unknown
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	2	0.8	200	270	—	Unknown
				Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	80	0.3	130	160	—	—
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	15	3.5	140	190	0.55	Lake smelt
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	1	0.8	220	290	—	Unknown