

OResults of Radioactive Material Monitoring of Aquatic Organisms (Location H in Lake Akimoto)

<Location H in Lake Akimoto: Samples collected>

Locations	General items		Radioactive materials			
	Water	Sediment	Water(Cs)	Water(Sr)	Sediment(Cs)	Sediment(Sr)
H-1	○	○	○	○	○	○
H-2	○	○	○	○	○	○
H-3	○	○	○	○	○	○
H-4	○	○	○	○	○	○
H-5	○	○	○	○	○	○

<Location H in Lake Akimoto: Site measurement item>

Locations	Survey date and time			Latitude and longitude of the location		Water		Sediment				Other	
	Date	Time(Water)	Time(Sediment)	Latitude	Longitude	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Transparency (m)
H-1	2012/1/24	11:14	11:35	37.657533°	140.126433°	5.4	5.5	Ooze	7.5Y-3/2	None	None	16.5	5.0
H-2	2012/1/24	12:00	12:00	37.661550°	140.122550°	5.4	5.4	Ooze	7.5Y-5/4	None	None	6.5	4.5
H-3	2012/1/24	10:00	10:15	37.665333°	140.132933°	5.7	5.0	Ooze	5Y-3/1	None	None	18.2	3.0
H-4	2012/1/24	—	11:25	37.655067°	140.118050°	5.7	5.5	Ooze	7.5Y-5/1	None	None	8.0	4.0
H-5	2012/1/24	9:20	9:45	37.652333°	140.156833°	6.0	6.1	Ooze	7.5Y-3/1	None	Leaves	7.0	3.6

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Water>

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)
	Date	Time	Latitude	Longitude												
H-1 (Surface layer)	2012/1/24	11:14	37.657533°	140.126433°	7.0	0.9	3.4	10.8	5.0	0.03	1.3	3	1.9	0.019	0.031	—
H-1 (Deep layer)	—	—	—	—	7.2	0.6	3.4	11.0	5.1	0.03	1.3	2	0.8	0.019	0.032	—
H-3 (Surface layer)	2012/1/24	10:00	37.665333°	140.132933°	7.1	0.9	3.5	10.6	5.2	0.03	1.4	2	0.6	0.018	0.029	—
H-3 (Deep layer)	—	—	—	—	7.1	0.7	3.6	10.1	5.2	0.03	1.3	2	0.5	0.026	0.046	0.0012
H-5 (Surface layer)	2012/1/24	9:20	37.652333°	140.156833°	7.1	1.4	3.7	11.0	5.2	0.03	1.8	3	0.3	0.027	0.041	—
H-5 (Deep layer)	—	—	—	—	7.1	1.0	4.0	11.2	5.2	0.03	1.6	3	0.3	0.047	0.080	—

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Sediment>

Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential Es(H) (mV)	Water content (%)	IL (%)	TOC (mg-dry)	Soil particle density (g/cm3)	Grain size distribution							Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
	Date	Time	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)
H-1	2012/1/24	11:35	37.657533°	140.126433°	6.6	220	66.5	8.0	19	2.582	—	0.0	0.1	66.9	42.9	0.007	2.00	360	630	—	
H-2	2012/1/24	12:00	37.661550°	140.122550°	6.5	216	76.7	13.4	52	2.441	—	0.2	0.5	30.0	65.6	0.013	4.75	660	1,100	—	
H-3	2012/1/24	10:15	37.665333°	140.132933°	6.4	108	72.0	14.0	51	2.461	—	0.1	0.2	6.8	73.1	0.015	2.00	1,200	2,100	2.0	
H-4	2012/1/24	11:25	37.655067°	140.118050°	6.6	87	71.0	7.9	18	2.584	—	0.2	0.3	61.6	37.7	0.009	2.00	77	150	—	
H-5	2012/1/24	9:45	37.652333°	140.156833°	6.4	158	52.4	7.0	23	2.636	—	0.4	11.6	36.8	29.9	0.070	2.00	620	1,100	—	

<Location H 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)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
H-1 H-2 H-3 H-4	2012/1/24	37.657533°	140.126433°	Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitales	<i>Elodea nuttallii</i>	Western Waterweed	—	0.50	1.6	3.1	—	—	—
				Arthropod	Malacostraca	Decapoda	Decapoda	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	43	2.4	41	79	8.5	Adult	—
				Vertebrata	Osteichthyes	Osermeriformes	Osermeriformes	<i>Hypomesus nipponensis</i>	Japanese smelt	46	0.21	22	36	—	Mature fish	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Carassius	5	0.71	42	77	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.1	37	68	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon sp.</i>	Tribolodon	11	1.4	57	110	0.85	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Salmoniformes	Salmoniformes	<i>Salvelinus leucomaenis</i>	Char	9	2.5	54	100	0.35	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Salmoniformes	Salmoniformes	<i>Oncorhynchus masou</i>	Seema	1	1.3	52	94	0.18	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Perciformes	Perciformes	<i>Microporus salmoides</i>	Largemouth bass	9	3.2	67	130	1.3	Mature fish	Some (details unknown)
				—	—	—	—	—	—	—	—	1.2	21	38	—	—

Note) Underlined names in the English name column indicate species largest in number in the respective samples.