

○Results 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	○	○	○	-	○	-

<Location H in Lake Akimoto: Site measurement item>

Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment			Other		
	Latitude	Longitude	Date	Time (water)	Time (sediment)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)
H-1(Surface layer)	37.6575°	140.1264°	2023/6/20	10:15	10:27	20.7	10.8	Ooze	7.5Y3/2	Plant pieces	13.4	3.0
H-1(Bottom layer)				10:19		12.8						
H-2(Surface layer)	37.6616°	140.1226°		11:56	12:06	22.3	11.8	Ooze	7.5Y5/3	None	6.5	2.8
H-2(Bottom layer)						13.9						

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

Locations	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric 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 (water)												
H-1(Surface layer)	37.6575°	140.1264°	2023/6/20	10:15	7.1	1.3	4.0	9.1	4.5	0.03	1.6	3	1.8	N.D.(0.0014)	0.0095	-
H-1(Bottom layer)				10:19	6.9	<0.5	4.0	8.7	4.2	0.03	1.5	2	1.5	N.D.(0.0023)	0.0037	0.00090
H-2(Surface layer)	37.6616°	140.1226°		11:56	7.1	0.8	3.3	9.1	4.5	0.03	1.6	2	1.6	N.D.(0.0013)	0.0022	-
H-2(Bottom layer)					6.7	1.0	3.7	5.1	5.0	0.03	1.6	7	5.3	N.D.(0.0014)	0.013	-

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

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

Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (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 (sediment)							Gravel (2-7mm) (%)	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	37.6575°	140.1264°	2023/6/20	10:27	7.1	104	53.5	11.4	47.0	2.490	0.0	0.0	0.1	0.5	53.2	46.2	0.0058	2.0	18	990	1.1
H-2	37.6616°	140.1226°		12:06	6.8	100	54.9	14.7	73.0	2.420	0.0	0.0	0.0	0.1	41.9	58.0	0.0035	0.85	5.1	260	-

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

<Location H in Lake Akimoto: 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 (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)		Sr-90 (Bq/kg-wet)	
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
H-1 H-2 H-3	In the lake	37.6575° 37.6616° 37.6653°	140.1264° 140.1226° 140.1329°	2023/6/18	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.026	-	-	-	2.0	N.D.(1.9)	2.0	-	
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	84	0.028	Juvenile,Imago	-	-	N.D.	N.D.(1.7)	N.D.(1.7)	-
				2023/6/20	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	63	2.5	Imago	-	-	14	N.D.(1.5)	14	6.3
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	23	3.9	Mature fish	Obscure digesta	Viscera removed	19	N.D.(1.3)	19	0.74
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius sp.</i>	Silver crucian carp	18	4.0	Mature fish	Obscure digesta	Viscera removed	14	N.D.(1.5)	14	1.2
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	4	2.8	Mature fish	Obscure digesta	Viscera removed	17	N.D.(1.2)	17	1.1
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	6	2.2	Mature fish	Empty stomach	Viscera removed	19	N.D.(1.3)	19	0.3