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

<Location H in Lake Akimoto: Samples collected>

Items	Gener	al items		Radioactiv	e materials	
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
H-1	0	0	0	0	0	0
H-2	0	0	0	-	0	-

<Location H in Lake Akimoto: Site measurement item>

	Items		ongitude of the		Survey date and time		Water		Sedi	iment	Other		
Locations		Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
H-1(Surfac	e layer)	37.6575° 37.6616°	140.1264°		14:09	14:21	8.7	8.8	Ooze	7.5Y4/2	Plant pieces	10.8	1.4
H-1(Botton	n layer)			2022/12/1			8.8						
H-2(Surfac	e layer)		140.1226°	2022/12/1	14:59	15:10	8.4	8.4	Ooze	7.5Y5/3	Plant pieces	5.5	1.3
H-2(Botton	n layer)		140.1226				7.9						1.3

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

Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
H-1(Surface layer)	37.6575°	140.1264°		14:09	7.1	0.7	2.9	9.9	5.2	0.03	1.3	4	4.9	N.D.(0.0013)	0.0046	-
H-1(Bottom layer)	37.0373	140.1204	2022/12/1		7.1	0.6	2.8	10.1	5.4	0.03	1.3	7	7.0	N.D.(0.0013)	0.0078	0.0011
H-2(Surface layer)	37.6616°	140.1226°	2022/12/1	14:59	7.2	0.7	2.9	10.4	5.4	0.03	1.1	7	6.5	N.D.(0.0013)	0.013	-
H-2(Bottom layer)	37.0010				7.2	0.6	3.0	10.3	5.5	0.03	1.2	6	6.2	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>

Items	Latitude and l	ongitude of the	Sumou de	ate and time							Grain size distribution										
nems	loca	ition	Survey da	ate and time	pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137 Sr-9	
Locations	Latitude	Longitudo	Data	Time (sediment)	1	E _{N.H.E}				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			
Locations	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2022/12/1	14:21	7.1	87	54.4	9.6	32.7	2.530	0.0	0.0	0.1	0.3	35.4	64.2	0.0024	2.0	24	1000	1.3
H-2	37.6616°	6° 140.1226°	2022/12/1	15:10	6.7	124	58.7	16.7	60.8	2.420	0.0	0.0	0.0	0.1	34.9	65.0	0.0028	2.0	10	360	-

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>

<location ak<="" h="" in="" lake="" p=""></location>	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	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude				'	' '				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
** .		25 (555)	140 12640	2022/12/1	Algae/plant	-	-	=	-	Plankton (Planktonic algae)	-	0.0069	-	-	-	5.2	N.D.(5.4)	5.2	-
H-1 H-2	In the lake	37.6575° 37.6616°	140.1264° 140.1226°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	12	3.2	Mature fish	Obscure digesta	Viscera removed	32	N.D.(1.6)	32	-
H-3		37.6653°	140.1220 140.1329°	2022/12/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Hemibarbus barbus	Hemibarbus barbus	3	2.3	Mature fish	Obscure digesta	Viscera removed	13	N.D.(1.3)	13	1.0
					Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	49	0.30	Mature fish	-	-	4.8	N.D.(0.30)	4.8	-

*1: Organisms were collected in or around the targeted water areas.

*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

*3: For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit. *8: Activity concentrations include counting errors, but the details are omitted here.