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

<Location H in Lake Akimoto: Samples collected>

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

<Location H in Lake Akimoto: Site measurement item>

	Items		ongitude of the ation		Survey date and time		Water		Sedi	ment		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(Surface layer)	37.6575°	140.1264°	2018/12/1	08:41	08:52	8.5	8.3	Ooze	7.5Y 4/2	Plant pieces	13.0	2.3	
	H-1(Bottom layer)		140.1264°	2010/12/1			8.4						2.3	

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

Scalon conductivity																
Items			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°	2018/12/1	08:41	6.9	<0.5	3.0	9.9	5.1	0.03	1.2	2	1.5	N.D.(0.0014)	0.014	-
H-1(Bottom layer)		140.1204	2010/12/1	00.41	6.9	0.6	3.3	11.4	5.8	0.04	1.5	2	1.7	N.D.(0.0012)	0.0061	0.0012

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>

v.	Latitude and longitude of the location		Survey date and time								Grain size distribution										
Items					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-90
Locations	Latitude	Longitude	Date	Time (sediment)		E _{NHE}				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			
				1 (-1)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2018/12/1	08:52	6.8	47	65.1	10.0	32.4	2.550	0.0	0.0	0.1	0.2	52.1	47.6	0.0055	2.0	140	1600	1.2

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

<location a<="" h="" in="" lake="" p=""></location>	Akimoto: Analysis ite																		
Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	weight Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude					1			p	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
H-1		37.6575°	140.1264°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	13	1.9	Mature fish	Obscure digesta	Viscera removed	29.7	1.7	28	-
H-2	In the lake	37.6616°	140.1226°	2018/12/1	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus salmoides	Largemouth bass	1	0.18	Immature fish	Empty stomach	Viscera removed	29	N.D.(2.0)	29	-
H-3		37.6653°	140.1329°		Vertebrata	Osteichthyes	Siluriformes	Siluridae	Silurus asotus	Amur catfish	2	1.2	Mature fish	Empty stomach	Viscera removed	28.1	3.1	25	-
					Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.010	-	-	-	N.D.	N.D.(3.5)	N.D.(3.3)	-
	Within the lake			1	Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera japonica	Ephemera japonica	207	0.0096	0.0096 Larva			20 N.D.(2.2)	N.D.(3.3)	20	
H-4	and rivers in the	37.6551°	140.1181°	2018/12/1	Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera strigata	Mont mayfly	207	0.0090	Laiva	-	-	20	N.D.(3.3)	20	-
	vicinity				Mollusca	Gastropoda	Discopoda	Pleuroceridae	Semisulcospira libertina	Semisulcospira libertina	30	0.025	Imago	-	Molluscous part	19	N.D.(1.8)	19	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Phoxinus lagowskii steindachneri	Amur Minnow	9	0.027	Immature fish,Mature fi	h -	-	3.4	N.D.(1.5)	3.4	_

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

^{*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 algue) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

^{*6:} River bottom materials (incl. algue) 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.