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

<Location H in Lake Akimoto: Samples collected>

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

<Location H in Lake Akimoto: Site measurement item>

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment				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°	2021/12/1	09:05	09:21	7.6	7.3	Ooze	7.5Y5/3	Plant pieces	12.0	3.0
H-1(Bottom layer)												
H-2(Surface layer)	37.6616°	140.1226°		09:39	09:50	7.1	7.0	Ooze	7.5Y5/3	Plant pieces	6.9	3.5
H-2(Bottom layer)						6.3						

<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°	2021/12/1	09:05	7.4	0.5	3.0	10.1	5.5	0.03	1.2	2	1.5	N.D.(0.0014)	0.0087	-
H-1(Bottom layer)					7.1	0.5	3.2	9.1	5.7	0.03	1.3	2	2.3	N.D.(0.0014)	0.0090	0.0018
H-2(Surface layer)	37.6616°	140.1226°		09:39	7.3	<0.5	3.1	10.5	5.5	0.03	1.2	1	1.4	N.D.(0.0016)	0.015	-
H-2(Bottom layer)					7.2	<0.5	2.9	10.5	5.5	0.03	1.2	1	1.6	N.D.(0.0013)	0.0067	-

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 longitude of the location		Survey date and time		pH	Redox potential $E_{N.H.E}$	Water content	IL	TOC	Soil particle density	Grain size distribution						Median grain diameter	Maximum grain diameter	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm³)	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) (%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2021/12/1	09:21	6.8	85	56.1	9.9	35.1	2.540	0.0	0.0	0.2	0.7	56.3	42.8	0.0066	2.0	83	2300	1.1
H-2	37.6616°	140.1226°		09:50	6.9	53	66.9	14.1	48.2	2.430	0.0	0.0	0.1	0.0	35.3	64.6	0.0023	2.0	60	2000	-

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
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
H-1	In the lake	37.6575°	140.1264°	2021/12/1	Arthropoda	Malacostraca	Decapoda	Astacidae	*Pacifastacus leniusculus trowbridgii*	Signal crayfish	6	0.43	Imago	-	-	13	N.D.(1.8)	13	-
H-2		37.6616°	140.1226°		Mollusca	Bivalvia	Unionoida	Unionidae	*Sinanodonta woodiana*	Chinese pond musse	2	0.61	Imago	-	Molluscous part	2.2	N.D.(0.96)	2.2	-
H-3		37.6653°	140.1329°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	10	2.4	Mature fish	Obscure digesta	Viscera removed	38	N.D.(1.3)	38	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	1.4	Mature fish	Obscure digesta	Viscera removed	14	N.D.(1.3)	14	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	2	1.7	Mature fish	Obscure digesta	Viscera removed	36.9	1.9	35	1.2
					Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Hypomesus nipponensis*	Japanese smelt	44	0.14	Immature fish,Mature fish	-	-	5.5	N.D.(1.3)	5.5	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	4	0.29	Immature fish,Mature fish	Empty stomach	Viscera removed	14	N.D.(1.4)	14	-

*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.