○Results of Radioactive Material Monitoring of Aquatic Organisms (Location G in Lake Hayama)

<Location G in Lake Hayama: Samples collected>

Items	General items		Radioactive materials			
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
G-1	○	○	○	○	○	○
G-2	○	○	○	-	○	-
G-4	○	○	○	-	○	-

<Location G in Lake Hayama: 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)
G-1(Surface layer)	37.7348°	140.8102°	2024/12/10	12:00	12:15	11.5	10.9	Ooze	10Y3/1	Plant pieces	14.9	3.0
G-1(Bottom layer)						10.4						
G-2(Surface layer)	37.7267°	140.8223°		10:30	10:40	11.7	11.8	Sand sediment	7.5Y6/2	Plant pieces,Gravel	4.1	2.9
G-2(Bottom layer)												
G-4	37.7382°	140.8035°		13:10	13:10	6.7	10.2	Sand	7.5Y5/3	Plant pieces	0.3	>0.5

<Location G in Lake Hayama: 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)
G-1(Surface layer)	37.7348°	140.8102°	2024/12/10	12:00	7.5	1.0	4.0	9.7	8.0	0.04	2.0	2	2.0	N.D.(0.0015)	0.011	-
G-1(Bottom layer)					7.3	1.4	4.2	9.7	8.1	0.04	2.1	3	1.9	N.D.(0.0015)	0.0096	0.0013
G-2(Surface layer)	37.7267°	140.8223°		10:30	7.3	1.0	4.0	9.1	8.3	0.04	2.0	3	2.3	N.D.(0.0015)	0.014	-
G-2(Bottom layer)					7.3	0.7	4.1	9.1	8.1	0.04	2.0	3	2.3	N.D.(0.0020)	0.042	-
G-4	37.7382°	140.8035°		13:10	7.7	<0.5	1.7	12.5	7.9	0.04	0.8	1	0.9	N.D.(0.0016)	0.0075	-

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

<Location G in Lake Hayama: General survey items/Analysis of radioactive materials   Sediment>

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle density	Grain size distribution						Median grain diameter	Maximum grain diameter	Cs-134	Cs-137	Sr-90
						E$_{N,H,E}$					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)					
Locations	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
G-1	37.7348°	140.8102°	2024/12/10	12:15	6.9	231	63.7	16.0	43.0	2.520	0.0	0.0	0.1	13.1	65.0	21.8	0.026	0.85	21	1600	2.5
G-2	37.7267°	140.8223°		10:40	7.0	482	26.9	2.6	2.9	2.670	18.1	19.8	26.2	20.9	10.6	4.4	0.49	9.5	7.5	540	-
G-4	37.7382°	140.8035°		13:10	7.2	502	28.9	2.9	3.1	2.700	10.3	19.9	43.4	19.5	2.8	4.1	0.52	19	4.4	340	-

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

<Location G in Lake Hayama: 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)
G-1	In the lake	37.7348°	140.8102°	2024/12/10	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.026	-	-	-	2.4	N.D.(1.5)	2.4	-
G-2		37.7267°	140.8223°	2024/12/1	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus salmoides*	Largemouth bass	2	1.2	Mature fish	Japanese smelt	Viscera removed	40	N.D.(1.3)	40	0.30
G-3		37.7302°	140.8307°		Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.3	Mature fish	Empty stomach	Viscera removed	90	N.D.(1.6)	90	0.66
G-4	Inflowing rivers	37.7382°	140.8035°	2024/12/10	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.026	-	-	-	68	N.D.(5.5)	68	-
					Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	44	0.029	Larva (Dragonfly larva)	-	-	5.1	N.D.(2.0)	5.1	-
					Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogaster sieboldii									
					Arthropoda	Insecta	Odonata	Gomphidae	*Melligomphus viridicostus*	Melligomphus viridicostus									
					Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
					Arthropoda	Insecta	Odonata	Gomphidae	*Davidius* sp.	Davidius									
					Arthropoda	Insecta	Odonata	Aeshnidae	*Planaeschna milnei milnei*	Planaeschna milnei milnei									
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	1	0.12	Mature fish	Diptera(imago)	Viscera removed	51	N.D.(2.5)	51	-
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Lepomis macrochirus*	Bluegill	2	0.046	Immature fish	Empty stomach	Viscera removed	23	N.D.(8.0)	23	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius* sp.	Rhinogobius	27	0.037	Immature fish, Mature fish	-	-	4.6	N.D.(1.8)	4.6	-
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	13	N.D.(1.3)	13	-

*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.