OResults of Radioactive Material Monitoring of Aquatic Organisms (Location D along the Mano River)

<Location D along the Mano River: Samples collected>

Items	Genera	al items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
D-4 a	0	0	0	0	0	0					

<Location D along the Mano River: Site measurement item>

Items		ongitude of the		Survey date and time		Water		Sedi	ment		Ot	er	
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (cm)	
D-4 a	37.7308°	140.9081°	2022/12/8	08:10	08:25	7.6	7.5	Sand	10YR4/3	None	0.30	>50	

<Location D along the Mano River: General survey items/Analysis of radioactive materials Water>

Items	Latitude and longitude of the location		Survey dat	e 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)
D-4 a	37.7308°	140.9081°	2022/12/8	08:10	7.4	<0.5	2.0	12.3	11.5	0.06	0.9	<1	0.6	N.D.(0.0015)	0.0019	0.00085

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

<Location D along the Mano River: General survey items/Analysis of radioactive materials Sediment>

Items Locations	Latitude and le	ongitude of the	Sumon de	ata and time										Grain si	ze distribution																													
iciis	loca	tion		Survey date and time		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	Dete	Time (cadiment)		$E_{N,H,E}$				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			í l																								
Locations		Longitude	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Time (sediment)	1	(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)
D-4 a	37.7308°	140.9081°	2022/12/8	08:25	7.6	497	18.8	1.8	2.6	2.700	28.5	46.0	14.8	2.8	3.2	4.7	1.4	9.5	2.7	110	0.67																							

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

<Location D along the Mano River: 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					ĺ				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)								
	The main stream of				Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0081	-	-	-	75	N.D.(13)	75	-								
													Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera strigata	Mont mayfly	201	0.012	Larva	-	-	19	N.D.(2.8)	19	-
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	128	0.0050	Larva	-	-	N.D.	N.D.(5.6)	N.D.(4.1)	-								
D-4 b	the Mano River	37.7312°	140.9096°	2022/12/4	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	2	0.032	Immature fish	-	-	3.5	N.D.(1.5)	3.5	-								
	ale Maile Iuvel				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou masou	Yamame trout	1	0.015	Immature fish	-	-	6.0	N.D.(2.6)	6.0	-								
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	14	N.D.(1.3)	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.