

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

<Location E in Lake Hayama: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	water (Cs)	water (Sr)	Sediment (Cs)	Sediment (Sr)
E-1	○	○	—	—	○	—
E-2	—	○	○	○	○	○
E-3	—	○	—	—	○	—
E-4	○	○	○	○	○	○
E-5	—	○	—	—	○	—

<Location E in Lake Hayama: Site measurement item>

Items Locations	Survey date and time		Latitude and longitude of the location		Water		Sediment				Other	
			Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth
E-1	2011/12/27	10:45	37.73412	140.80883	5.6	5.4	Sand/sediment	Light brown olive	None	None	3.2	6.4
E-2		12:05	37.73017	140.83067	6.2	6.5	Sand/gravel/sediment	Light brown	None	Plant	3.5	21.5
E-3		13:10	37.72772	140.82688	6.2	6.7	Sediment	Grayish olive	None	Plant	3.7 reach the bottom	3.7
E-4		14:00	37.72673	140.82233	6.3	7.3	Sediment	Olive	None	Wood chips	3.8	7.5
E-5		14:45	37.73205	140.81272	6.2	6.4	Sediment	Faint gray	None	Plant	3.9	4.8

<Location E in Lake Hayama: Analysis items Water>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)	
			Latitude	Longitude													
E-1	2011/12/27	10:45	37.73412	140.80883	-	-	-	-	-	-	-	-	-	-	-	-	
E-2		12:05	37.73017	140.83067	7.4	0.9	3.0	11.0	7.3	0.03	1.4	2	1.4	0.15	0.19	0.0058	
E-3		13:10	37.72772	140.82688	-	-	-	-	-	-	-	-	-	-	-	-	-
E-4		14:00	37.72673	140.82233	7.3	0.5	2.5	9.6	7.4	0.03	1.5	1	1.2	0.21	0.26	0.0071	
E-5		14:45	37.73205	140.81272	-	-	-	-	-	-	-	-	-	-	-	-	-

<Location E in Lake Hayama: Analysis items Sediment>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{N.H.E} (mV)	Water content (%)	IL (%)	TOC mg/g.dry	Soil particle density (g/cm ³)	Grain size distribution							Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
			Latitude	Longitude							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) (%)	Median grain diameter (mm)				Maximum grain diameter (mm)
E-1	2011/12/27	10:45	37.73412	140.80883	6.5	167	61.3	12.9	48	2.561	—	0.2	2.2	30.9	44.6	22.1	0.0351	2	3,900	5,400	—
E-2		12:05	37.73017	140.83067	6.5	81	59.6	11.2	51	2.524	12.5	6.0	9.2	10.5	41.0	20.8	0.0347	19	1,800	2,400	4.2
E-3		13:10	37.72772	140.82688	6.4	124	60.0	9.6	38	2.559	5.0	3.4	7.0	23.3	40.9	20.4	0.0432	9.5	1,300	1,800	—
E-4		14:00	37.72673	140.82233	6.2	129	59.6	9.3	37	2.550	6.4	3.9	6.1	17.1	44.2	22.3	0.0300	9.5	3,100	4,100	1.4
E-5		14:45	37.73205	140.81272	6.4	93	50.7	5.5	26	2.620	4.5	2.8	6.5	35.1	33.8	17.3	0.0716	4.75	4,400	5,800	—

<Location E in Lake Hayama: Analysis items Aquatic organisms>

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg,wet)	Cs-134 (Bq/kg,wet)	Cs-137 (Bq/kg,wet)	Sr-90 (Bq/kg,wet)	*Stomach contents
		Latitude	Longitude												
E-2 E-4 E-5	2011/12/27	37.73017	140.83067	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	60	3.5	440	570	0.68	Unknown
		37.72673	140.82233	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	3	2	350	440	1.6	Unknown
		37.73205	140.81272	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	7	1	87	110	—	Unknown
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	15	0.4	41	50	—	Unknown
E-6	2012/1/11	37.73698	140.80560	—	—	—	—	—	CPOM	—	3	340	460	—	—
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria tibialis</i>	Kamimura tibialis	Many (approx. 700)	0.2	220	300	—	—
				Arthropoda	Insecta	Neuroptera	Corydalidae	<i>Parachauliodes japonicus</i>	Parachauliodes japonicus						
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata						
				Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche sauteri</i>	Parastenopsyche sauteri						
				Arthropoda	Insecta	Diptera	Tipulidae	<i>Tipula sp.</i>	Tipula						
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	40	0.2	280	380						