

QResults of Radioactive Material Monitoring of Aquatic Organisms (Location E along the Niida River)

<Location E along the Nijida River: Samples collected>

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

< Location E along the Niida River: Site measurement item >

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other	
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth(m)	Transparency(cm)
E-1	37.6609°	140.9115° <sup>b</sup>	2015/8/22	7:50	7:38	20.6	20.8	Sand	10YR4/6	None	0.28	>50
E-2a	37.6640°	140.9447° <sup>b</sup>		10:21	10:28	23.3	23.8	Sediment with sand	2.5Y3/3	None	0.47	>50
E-2b	37.6653° <sup>b</sup>	140.9452° <sup>b</sup>		9:53	-	21.8	-	-	-	-	0.17	>50
E-3	37.6444° <sup>b</sup>	140.0108° <sup>b</sup>		13:45	13:40	24.0	24.2	Sand	2.5Y3/3	None	0.40	>50
E-4	37.6485° <sup>b</sup>	140.9630° <sup>b</sup>		12:48	12:31	23.4	23.3	Sand	2.5Y4/1	None	0.70	>50
E-5	37.6652° <sup>b</sup>	140.9169° <sup>b</sup>		9:00	8:48	20.8	21.1	Sand	2.5Y4/4	None	0.45	>50

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

Location	Latitude and longitude of the location		Survey date and time		Chemical parameters											
	Items	Scheduled latitude	Scheduled longitude	Date	Time (water)	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)
Locations																
E-1	37.6609°	140.9115°	2015/8/22	7:50	8.0	<0.5	2.5	9.1	7.7	0.04	1.0	2	2.3	0.025	0.097	0.0021
E-2a	37.6640°	140.9447°		10:21	8.0	<0.5	2.6	10.6	8.7	0.05	1.2	2	2.5	0.025	0.093	-
E-2b	37.6635°	140.9452°		9:53	7.6	<0.5	4.5	9.8	8.3	0.05	1.1	3	3.0	0.034	0.13	-
E-3	37.6444°	140.0018°		13:45	7.4	1.7	3.2	8.3	11.9	0.06	1.3	3	3.7	0.025	0.095	-
E-4	37.6485°	140.9630°		12:48	7.6	<0.5	2.8	8.6	9.0	0.05	1.1	4	3.0	0.022	0.082	-
E-5	37.6652°	140.9169°		9:00	7.6	<0.5	2.7	9.1	7.7	0.04	1.0	2	2.2	0.029	0.11	-

Location E along the Niida River: General survey items/Analysis of radioactive materials Sediment

Location & date		Acidity, alkalinity, and water quality parameters (sediment)											Grain size distribution								
Items	Latitude and longitude of the location		Survey date and time			pH	Redox potential EN.H.E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm3)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
	Scheduled latitude	Scheduled longitude	Date	Time (sediment)								Gravel (2.75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter		
E-1	37.6609°	140.9115°	2015/8/22	7:38	7.2	453	14.3	0.9	1.4	2.673	51.0	42.1	6.5	0.1	0.1	0.2	2.0	19	160	650	0.20
E-2a	37.6640°	140.9447°		10:28	6.9	36	50.8	8.8	22.8	2.591	13.8	15.1	19.8	13.6	18.9	18.8	0.23	19	2000	8000	-
E-3	37.6444°	141.0018°		13:40	7.1	429	19.3	0.9	1.8	2.672	13.6	37.3	46.0	1.5	0.6	1.0	0.86	4.8	95	360	-
E-4	37.6485°	140.9630°		12:31	6.5	123	20.0	1.2	2.2	2.672	9.4	20.4	63.7	4.0	1.1	1.4	0.62	9.5	130	520	-
E-5	37.6652°	140.9160°		8:49	6.8	392	17.3	1.4	2.2	2.601	28.6	31.7	33.5	0.3	2.0	2.9	1.1	39	280	1100	-

Location E along the Niida River: Analysis items Aquatic organisms

\*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 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: A statement in red in the “Growth stage” column shows the age assessed based on squama or otolith.

\*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40 $\mu$ m-mesh).

\*7: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc.

\*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*9: Activity concentrations include counting errors, but the details are omitted here.