

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

<Location E along the Niida River: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
Locations						
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		
Locations	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°	2015/6/17	7:56	7:50	18.8	19.0	Sand	2.5Y4/3	Pebbles	0.22	23.5
E-2a	37.6640°	140.9447°		11:16	11:40	19.7	20.0	Sediment	7.5Y4/3	Plant	0.27	14
E-2b	37.6635°	140.9452°		10:42	—	19.4	—	—	—	—	0.18	14
E-3	37.6444°	141.0018°		13:57	13:53	20.8	20.9	Sand	2.5Y4/3	Pebbles	0.3	16
E-4	37.6485°	140.9630°		13:07	13:00	20.1	19.8	Sand	2.5Y5/2	Pebbles	0.55	10
E-5	37.6652°	140.9169°		9:42	9:38	18.8	18.8	Sand	2.5Y4/2	Pebbles	0.6	25

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

Items Locations	Latitude and longitude of the location			Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FTU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)	Ra-226 (Bq/L)
	Scheduled latitude	Scheduled longitude	Date	Time	(water)													
E-1	37.6609°	140.9115°	2015/6/17	7:56	7.5	0.8	4.9	9.2	6.9	0.04	2	24	18.3	0.14	0.53	0.0021	—	
E-2a	37.6640°	140.9447°		11:16	7.3	1.2	5.2	9.4	7.4	0.04	2.6	38	37.2	0.16	0.62	—	—	
E-2b	37.6635°	140.9452°		10:42	7.3	0.8	5.2	9.7	7.5	0.04	2.5	35	36	0.18	0.67	—	—	
E-3	37.6444°	141.0018°		13:57	7.2	1.4	5.3	8.9	9.6	0.05	2.2	37	36.6	0.17	0.64	—	—	
E-4	37.6485°	140.9630°		13:07	7.4	0.6	4.6	9.5	7.9	0.04	2	26	25.1	0.11	0.39	—	—	
E-5	37.6652°	140.9169°		9:42	7.4	0.6	4.4	9.5	7.2	0.04	1.9	22	15.7	0.076	0.31	—	—	

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

Location & site information											Soil characteristics and grain size distribution													
Items	Latitude and longitude of the location			Survey date and time								Grain size distribution										Cs-134	Cs-137	Sr-90
	Scheduled latitude	Scheduled longitude	Date	Time	(sediment)	pH	Redox potential EN.H.E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm³)	Gravel (2.75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter					
Locations	37.6609°	140.9115°	2015/6/17	7:50	6.9	380	11.3	0.9	1.3	2.663	44.4	45.1	10	0.3	0.2	1.8	19	190	690	N.D. (0.13)				
	37.6640°	140.9447°		11:40	6.8	377	73	8.8	36.7	2.451	1.5	6.2	16.9	19.6	30.9	24.9	0.043	4.75	2600	10000				
	37.6444°	141.0018°		13:53	7	402	14.5	1	1.4	2.666	20	35.3	42	1.8	0	0.9	0.95	19	71	280				
	37.6485°	140.9630°		13:00	6.8	446	18.8	1	2.2	2.658	12.8	39	45.5	1.7	0	1	0.88	9.5	80	280				
	37.6652°	140.9169°		9:38	6.8	447	15.2	1.5	3.4	2.681	28.6	26.1	38.4	5.2	0.5	1.2	0.98	9.5	350	1300				
	37.6652°	140.9169°		11:30	6.8	448	15.2	1.5	3.4	2.681	28.6	26.1	38.4	5.2	0.5	1.2	0.98	9.5	350	1300				

### <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 µm-mesh).

\*7: River bottom materials (incl. algae) are algae etc. that were scratched off stones with a brush etc. and may include very fine particulate material.

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\*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.

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