

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

<Location E along the Niida River: Samples collected>

Exclusion During the Final Recovery Operations Selected		General items		Radioactive materials			
Locations	Items	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
E-2 a		○	○	○	○	○	○

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

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

Location E along the Tigray River, Ethiopia, during the rainy season (July-September)																	
Items		Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (µS/m)	Salinity	TOC (mg/L)	SS (FNU)	Turbidity	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Locations	Latitude	Longitude	Date	Time (water)													
E-2 a	37.6640°	140.9447°	2018/9/7	12:28	7.4	0.5	3.6	9.7	7.8	0.05	1.4	3	2.8	0.0047	0.050	0.0020	

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

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

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution							Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
	Latitude	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 (0.005-0.075mm)	Clay (Less than 0.005mm)	Median grain diameter (mm)	Maximum grain diameter (mm)		
E-2 a	37.6640°	140.9447°	2018/9/7	12:59	7.1	337	13.6	1.5	2.6	2.708	33.6	28.8	23.5	11.5	2.6	1.3	4.8	46	460	0.23

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

#### <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 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.

\*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.