

Table 7 Ecological risk of the heavy metal concentration in sediment of Nun River at Gbarantoru and Tombia towns in Bayelsa state, Nigeria

Parameters	Median mean			Geometric mean		
	Location A	Location B	Location C	Location A	Location B	Location C
Ecological risk (ER)						
Cd	32.733	30.000	13.650	45.000	41.250	18.750
Cr	3.000	2.000	1.000	3.000	2.000	1.000
Co	10.000	5.000	5.000	10.000	5.000	5.000
Ni	13.335	5.000	0.415	20.000	7.500	0.625
Pb	6.540	5.000	2.690	7.085	5.415	2.915
Zn	1.271	1.000	0.559	1.427	1.122	0.627
Comparison criteria	Note: $Er < 40$ (Low risk); $Er 40 \leq Er < 80$ (Moderate risk); $80 \leq Er < 160$ (Considerable); $160 \leq Er < 320$ (High); $Er \geq 320$ (Very high)					
Ecological risk Index (R')	66.879	48	23.314	86.512	62.287	28.917
Comparison criteria	Note: $R' < 150$ (Low risk); $150 \leq R' < 300$ (Moderate risk); $300 \leq R' < 600$ (Considerable); $R' \geq 600$ (Very high)					