

Table 2 Spearman rho correlation matrix of the studied physiochemical parameters

Parameters	PH	SAL	COND	TURB	TDS	TSS	NO3	CL	SO4	HCO3	TA	TH	Ca	Mg	Na	K	DO	BOD
PH	1																	
SAL	0.046	1																
COND	0.862**	0.091	1															
TURB	0.854**	0.091	0.967**	1														
TDS	0.874**	0.092	0.996**	0.962**	1													
TSS	0.845**	-0.183	0.900**	0.883**	0.912**	1												
NO3	-0.812**	0.000	-0.950**	-0.967**	-0.946**	-0.950**	1											
Cl	-0.891**	0.000	-0.979**	-0.929**	-0.983**	-0.929**	0.929**	1										
SO4	-0.904**	0.091	-0.883**	-0.833**	-0.904**	-0.967**	0.883**	0.921**	1									
HCO3	-0.153	-0.046	-0.101	-0.152	-0.064	-0.076	0.152	0.064	0.051	1								
TA	-0.525	0.092	-0.360	-0.393	-0.370	-0.477	0.418	0.387	0.502	0.797*	1							
TH	-0.599	-0.276	-0.832**	-0.849**	-0.827**	-0.723*	0.849**	0.785*	0.647	-0.226	-0.063	1						
Ca	-0.929**	-0.183	-0.933**	-0.883**	-0.929**	-0.867**	0.883**	0.946**	0.900**	0.177	0.444	0.740*	1					
Mg	-0.879**	0.274	-0.867**	-0.867**	-0.879**	-0.983**	0.917**	0.912**	0.950**	0.101	0.510	0.655	0.850**	1				
Na	-0.527	-0.091	-0.433	-0.433	-0.427	-0.367	0.383	0.444	0.400	0.836**	0.895**	-0.008	0.500	0.400	1			
K	0.735*	-0.183	0.586	0.653	0.597	0.753*	-0.695*	-0.580	-0.762*	0.055	-0.311	-0.515	-0.619	-0.778*	-0.059	1		
DO	-0.420	0.183	-0.427	-0.477	-0.429	-0.477	0.477	0.412	0.435	-0.597	-0.378	0.633	0.360	0.494	-0.494	-0.731*	1	
BOD	0.477	0.000	0.383	0.400	0.393	0.467	-0.433	-0.427	-0.467	-0.785*	-0.954**	-0.017	-0.467	-0.483	-0.917**	0.142	0.477	1

Note: “**” Correlation is significant at the 0.01 level (2-tailed); “*” Correlation is significant at the 0.05 level (2-tailed)