

Real Time River Water Quality Monitoring And ControlSystem (Components list)

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TEAM ID	PNT2022TMID00516
PROJECT NAME	Real Time River Water Quality Monitoring And Control System

Components Lists:

The key basic water quality parameters that need to be addressed in an emergency are bacteriological indicators of fecal contamination, free chlorine residual, PH, turbidity and possibly conductivity/total dissolved solids. there are many decontamination methods.

Parameters

COD	0.222	-0.282	0.671	0.395	0.453
PO4	0.589	-0.325	0.621	0.055	-0.162
NO3	0.628	0.450	0.331	0.157	-0.104
SO4	0.289	0.034	0.163	0.876	-0.096
CL	-0.116	0.247	0.829	-0.105	0.323
TSS	0.728	0.399	-0.155	0.109	0.258
TDS	-0.477	0.186	-0.374	0.673	0.129
TURB	-0.014	-0.635	0.184	0.503	0.418
PH	0.078	0.902	0.185	0.222	-0.065
ALKAL	0.846	0.206	-0.015	-0.288	0.215
EC	0.952	0.001	-0.014	0.110	0.029
DO	-0.322	0.079	-0.126	0.050	-0.908
BOD	0.053	0.946	-0.115	0.021	-0.092
TEMP	0.017	-0.096	0.887	0.045	-0.048
FC	0.823	0.063	0.172	0.204	0.435
TC	0.315	0.878	-0.172	-0.144	0.179
Eigen value	4.156	3.586	2.766	1.891	1.721
% of total variance	25.976	22.414	17.287	11.819	10.757
Cumulative % of variance	25.976	48.390	65.678	77.496	88.253

R-mode

Sampling site	VF1	VF2	VF3	VF4	VF5
TB	0.996	-0.084	0.846	1.089	0.083
AS	0.336	-0.658	-0.654	1.747	1.368
AMT	-0.523	-1.057	0.475	-0.814	0.855
NUMT	-0.886	-0.245	-0.091	-0.819	0.994
AC	-1.468	0.660	0.854	-0.448	0.139
AW	-1.070	0.063	-0.878	0.971	-0.994
BE	0.854	2.287	-0.996	-0.575	0.632
NP	0.245	-0.946	-1.661	-0.726	-1.362
BR	-0.134	0.626	1.320	0.603	-1.431
AB	1.649	-0.646	0.786	-1.027	-0.287