Table 4-7. Total Suspended Solids Correlation Results

Station and Season	S01-Wet		S02-Wet		S10-Wet		S13-Wet		S14-Wet		S28-Wet		S29-Wet	
Sample Size (N) or Correlation Coefficient (CORR)	N	CORR	N	CORR	N	CORR	N	CORR	N	CORR	N	CORR	N	CORR
E Coli	3	1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	-1	3	0.5
Fecal Coliform	3	-0.5	3	-0.5	3	1	3	1	3	-0.5	3	-1	3	-1
Fecal Enterococcus	3	0	3	-0.5	3	0.866	3	-0.866	3	-0.5	3	-1	3	0.5
Fecal Streptococcus	3	0.5	3	-0.5	3	0.866	3	-0.866	3	-0.5	3	-1	3	0.5
Total Coliform	3	-1	3	-0.5	3	0.5	3	-0.5	3	-1	3	-0.866	3	-0.5
Cyanide	3	0.866	3	0.866	3	1	0	NA	0	NA	0	NA	3	0.5
Dissolved Oxygen	3	-1	7	-0.721	3	-0.5	3	-0.5	3	0.5	3	-0.5	3	-0.5
Oil and Grease	3	0.5	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
pH	3	-1	7	-0.342	3	-1	3	-0.5	3	1	3	-1	3	-1
Alkalinity as CaCO3	3	1	3	-0.5	3	0.5	3	1	3	-0.5	3	0.5	3	-0.5
Biochemical Oxygen Demand	3	0.5	3	-0.5	3	0.5	3	0.5	3	-1	3	0.5	3	1
Chemical Oxygen Demand	3	0.5	3	0.5	3	0.5	3	0.5	3	-1	3	0.5	3	0.5
Chloride	3	0.5	3	-1	3	0.5	3	0.5	3	-0.5	3	0.5	3	-0.5
Dissolved Phosphorus	3	0.5	3	-0.5	3	0.5	3	-0.5	3	-1	3	0.5	3	1
Fluoride	3	0.5	3	0	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Hardness as CaCO3	3	0.866	3	-0.5	3	0.5	3	1	3	-0.5	3	0.5	3	-0.5
Kjeldahl N	3	0.5	3	0.5	3	1	3	1	3	-0.5	3	1	3	0.5
Methylene Blue Active Substances	3	0.5	0	NA	3	0.5	3	0.5	0	NA	3	0.5	3	-0.5
NH3-N	3	0.5	3	-0.5	3	0.5	3	0.5	0	NA	3	0.5	3	-0.5
Nitrate -NO3	3	-1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Nitrate-N	3	-1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Nitrite -NO2	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	3	-0.5
Total Phosphorus	3	1	3	-0.5	3	0.5	3	1	3	0.5	3	0.5	3	1
Specific Conductance	3	0.5	7	-0.198	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Sulfate	3	0.5	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	-0.5
Total Dissolved Solids	3	0.5	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	-0.5
Total Organic Carbon	3	0.5	3	0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	-0.5
Turbidity	3	1	7	0.727	3	1	3	1	3	1	3	1	3	-0.5
Volatile Suspended Solids	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Dissolved Aluminum	3	1	3	-0.5	3	0.866	3	-0.5	3	0.5	3	0.5	3	0.5
Dissolved Antimony	3	0.5	3	0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	-0.5
Dissolved Arsenic	3	1	3	0.5	3	0.5	3	0.5	3	0.5	3	0.5	3	0.5
Dissolved Barium	3	1	3	-1	3	1	3	0.5	3	0.5	3	0.5	3	0.866
Dissolved Cadmium	3	1	3	0.5	3	1	3	0.5	0	NA	3	0.5	3	0.5
Dissolved Chromium	3	1	3	0.5	3	1	3	0.5	3	0.5	3	0.5	3	0.5
Dissolved Copper	3	1	3	-0.5	3	1	3	0.5	3	-0.5	3	0.5	3	0.5
Dissolved Iron	3	1	3	-0.5	3	1	3	0.5	3	0.5	3	0.5	3	0.5
Dissolved Lead	3	1	3	-0.5	3	1	3	0.5	3	0.5	3	0.5	3	-0.5
Dissolved Nickel	3	1	3	-0.5	3	1	3	0.5	3	-1	3	0.5	3	0.5
Dissolved Selenium	0	NA	3	-0.5	0	NA	0	NA	0	NA	0	NA	0	NA
Dissolved Zinc	3	1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Aluminum	3	1	3	-1	3	0.5	3	-0.5	3	0.5	3	0.5	3	0.5
Ammonia	3	0.5	3	-0.5	3	0.5	3	0.5	0	NA	3	0.5	3	-0.5
Antimony	3	0.5	3	0.5	3	0.5	3	0.5	3	-1	3	0.5	3	-0.5
Arsenic	3	1	3	0.5	3	1	3	0.5	3	0.5	3	0.5	3	1
Barium	3	1	3	-0.5	3	1	3	0.5	3	0.5	3	0.5	3	1
Beryllium	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	3	0.5
Cadmium	3	1	3	-0.5	3	1	3	0.5	3	-0.5	3	0.5	3	1
Chromium	3	1	3	0.5	3	0.5	3	0.5	3	0.5	3	0.5	3	1
Copper	3	1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	0.5
Iron	3	1	3	-0.5	3	1	3	0.5	3	0.5	3	0.5	3	1
Lead	3	1	3	-0.5	3	1	3	-0.5	3	0.5	3	0.5	3	-0.5
Nickel	3	1	3	-0.5	3	0.5	3	0.5	3	-0.5	3	0.5	3	1
Selenium	0	NA	3	0	3	0.5	0	NA	0	NA	0	NA	0	NA
Silver	3	1	0	NA	3	1	3	0.5	0	NA	0	NA	3	1
Zinc	3	1	3	-0.5	3	0.5	3	0.5	3	-1	3	0.5	3	0.5
Bis 2 Ethylhexyl phthalate	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA

Significantly correlated (p value <0.05).

Potentially correlated but indeterminate based on small sample size.

Table 4-7. Total Suspended Solids Correlation Results

Station and Season	TS25-Wet		TS26-Wet		TS27-Wet		TS28-Wet		TS29-Wet		TS30-Wet	
Sample Size (N) or Correlation Coefficient (CORR)	N	CORR	N	CORR	N	CORR	N	CORR	N	CORR	N	CORR
E Coli	4	0.8	4	0.8	4	-0.4	4	0.2	4	0.4	4	-0.2
Fecal Coliform	4	0.4	4	0.8	4	-0.4	4	0.2	4	0.8	4	-0.8
Fecal Enterococcus	4	-0.894	4	0.4	4	-0.4	4	-0.6	4	0.2	4	-0.4
Fecal Streptococcus	4	-0.894	4	0.4	4	-0.4	4	0	4	0.2	4	-0.4
Total Coliform	4	0.6	4	-0.949	4	-0.4	4	0.8	4	0.316	4	0
Cyanide	0	NA	4	0	0	NA	0	NA	4	0.632	0	NA
Dissolved Oxygen	4	-0.8	4	-0.4	4	-0.4	4	-0.2	4	-0.8	4	-1
Oil and Grease	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
pH	4	0	4	0.8	4	-0.4	4	0.200	4	-0.4	4	-1
Alkalinity as CaCO3	4	0.8	4	0.2	4	0.4	4	0.2	4	0.4	4	0.8
Biochemical Oxygen Demand	4	0.8	4	0.2	4	0.8	4	0.4	4	0.4	4	1
Chemical Oxygen Demand	4	0.8	4	0.2	4	0.4	4	0.4	4	0.4	4	0.8
Chloride	4	0.4	4	0.4	4	-0.8	4	0.2	4	0	4	1
Dissolved Phosphorus	4	0.8	4	0.2	4	0.2	4	-0.2	4	0.4	4	0.8
Fluoride	4	0.4	4	0.2	4	0.4	4	0.2	4	0	4	0.8
Hardness as CaCO3	4	0.4	4	0.4	4	-0.6	4	0.2	4	0	4	1
Kjeldahl N	4	0.8	4	0.2	4	1	4	1	4	0.4	4	0.4
Methylene Blue Active Substances	4	0.632	4	0.2	4	0.211	4	0.316	4	0.632	4	0.949
NH3-N	4	0.8	4	0.2	4	0.316	4	0.316	4	0.4	4	0.8
Nitrate -NO3	4	0.4	4	0.4	4	1	4	0.4	4	0.4	4	0.8
Nitrate-N	4	0.4	4	0.4	4	1	4	0.4	4	0.4	4	0.8
Nitrite -NO2	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Total Phosphorus	4	1	4	0.2	4	0.8	4	0.8	4	0.8	4	1
Specific Conductance	4	0.4	4	0.4	4	-0.8	4	0.2	4	0	4	0.8
Sulfate	4	0.4	4	0.4	4	-0.8	4	0.2	4	0	4	0.8
Total Dissolved Solids	4	0.4	4	0.2	4	-0.6	4	0.2	4	0	4	0.8
Total Organic Carbon	4	0.4	4	0.2	4	0.4	4	0.2	4	0.4	4	0.8
Turbidity	4	0.6	4	-0.316	4	0.6	4	-0.2	4	0	4	0
Volatile Suspended Solids	4	1	4	1	4	0.8	4	1	4	0.8	4	1
Dissolved Aluminum	4	1	4	-0.2	4	0.8	4	1	4	1	4	1
Dissolved Antimony	4	0.4	4	0.2	4	0.4	4	-0.4	4	0.4	4	0.8
Dissolved Arsenic	4	0.8	4	0.2	4	0.6	4	1	4	0.4	4	0.2
Dissolved Barium	4	1	4	0.4	4	0.8	4	0.8	4	0.8	4	0.8
Dissolved Cadmium	4	1	4	0.4	4	0.8	4	0.4	4	1	4	1
Dissolved Chromium	4	0.8	4	0.4	4	0.8	4	0.4	4	1	4	1
Dissolved Copper	4	0.8	4	-0.4	4	0.8	4	0.2	4	0.8	4	0.8
Dissolved Iron	4	1	4	0.4	4	0.8	4	1	4	1	4	1
Dissolved Lead	4	1	4	0.4	4	0.8	4	1	4	0.8	4	0.8
Dissolved Nickel	4	0.8	4	0.4	4	0.8	4	0.2	4	0.8	4	0.8
Dissolved Selenium	4	0.4	0	NA	4	-0.4	4	0.2	4	-0.8	4	0.4
Dissolved Zinc	4	0.8	4	0.2	4	0.4	4	0.2	4	0.8	4	0.8
Aluminum	4	1	4	-0.4	4	0.8	4	1	4	0.8	4	0.8
Ammonia	4	0.8	4	0.2	4	0.316	4	0.316	4	0.4	4	0.8
Antimony	4	0.8	4	0.2	4	0.4	4	0.2	4	0.4	4	0.8
Arsenic	4	1	4	-0.4	4	1	4	1	4	0.8	4	0.4
Barium	4	1	4	0.2	4	0.4	4	0.8	4	0.8	4	0.8
Beryllium	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Cadmium	4	1	4	0.2	4	0.8	4	0.4	4	0.8	4	0.8
Chromium	4	0.8	4	0.2	4	0.8	4	1	4	0.8	4	0.8
Copper	4	0.8	4	0.2	4	0.4	4	0.4	4	0.4	4	0.8
Iron	4	1	4	0.2	4	1	4	1	4	0.8	4	0.8
Lead	4	1	4	0.4	4	0.8	4	0.8	4	0.8	4	0.8
Nickel	4	0.8	4	0.316	4	0.8	4	0.4	4	0.8	4	0.8
Selenium	4	0.4	4	0.4	4	-0.8	4	0.8	4	-0.6	4	0.4
Silver	0	NA	4	-0.316	0	NA	0	NA	0	NA	0	NA
Zinc	4	0.8	4	0.2	4	0.4	4	0.2	4	0.4	4	0.8
Bis 2 Ethylhexyl phthalate	0	NA	0	NA	4	-0.738	0	NA	0	NA	0	NA

Significantly correlated (p value <0.05).

Potentially correlated but indeterminate based on small sample size.