Spearman's Correlation Coefficient (Two-tailed)	
Number of Data Points	9
p=0.05, 95% Significant	0.700
p=0.01, 99% Significant	0.833
p=0.001, 99.9% Significant	0.933

	Water Depth (m)	Mean (mm)	Sorting	Skewness	Kurtosis	% Fines	% Sands	% Gravel	Total Organic Carbon (% dwt)	Total Organic Matter (% w/w)	Moisture Content (%)	Carbonate content	Total Oil (mg.kg-1)	Total n alkanes (ng.g-1)
Water Depth (m)		-0.866	-0.624	0.485	0.554	0.191	0.849	-0.935	-0.308	-0.811	0.436	-0.815	0.450	0.450
Mean (mm)			0.483	-0.517	-0.600	-0.483	-0.817	0.950	0.306	0.938	-0.553	0.877	-0.633	-0.533
Sorting				-0.733	0.133	0.283	-0.717	0.600	0.000	0.461	-0.098	0.541	-0.033	-0.333
Skewness					0.117	0.200	0.483	-0.450	-0.034	-0.494	-0.277	-0.585	0.183	0.367
Kurtosis						0.517	0.400	-0.567	-0.306	-0.576	0.147	-0.526	0.567	0.550
% Fines							0.000	-0.233	-0.596	-0.592	0.147	-0.570	0.750	0.417
% Sands								-0.933	-0.102	-0.773	0.440	-0.716	0.350	0.483
% Gravel									0.255	0.889	-0.570	0.833	-0.517	-0.533
Total Organic Carbon (% dwt)										0.564	-0.120	0.632	-0.511	-0.545
Total Organic Matter (% w/w)											-0.486	0.972	-0.757	-0.708
Moisture Content (%)												-0.362	0.472	0.147
Carbonate content													-0.745	-0.760
Total Oil (mg.kg-1)														0.750
Total n alkanes (ng.g-1)														
Carbon Preference Index														
P/B Ratio														
Proportion of Alkanes (%)														
Total PAHs (ug.kg-1)														
NPD PAHs (ng.g-1)														
Arsenic (mg.kg-1)														
Cadmium as Cd														
Chromium as Cr														
Copper as Cu														
Lead as Pb														
Mercury as Hg														
Nickel as Ni														
Vanadium as V														
Zinc as Zn														
Aluminium as Al														
Barium as Ba														
Iron as Fe														
Lithium as Li														
Titanium as Ti														

Spearman's Correlation Coefficient (Two-tailed)	
Number of Data Points	9
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p=0.01, 99% Significant	0.833
p=0.001, 99.9% Significant	0.933

	Carbon Preference Index	P/B Ratio	Proportion of Alkanes (%)	Total PAHs (ug.kg-1)	NPD PAHs (ng.g-1)	Arsenic (mg.kg-1)	Cadmium as Cd	Chromium as Cr	Copper as Cu	Lead as Pb	Mercury as Hg	Nickel as Ni	Vanadium as V	Zinc as Zn
Water Depth (m)	-0.139	-0.831	-0.173	0.370	-0.286	-0.554	0.462	-0.058	-0.485	-0.156	0.587	-0.797	-0.537	-0.139
Mean (mm)	0.133	0.850	0.317	-0.658	0.000	0.683	-0.303	0.162	0.600	0.423	-0.371	0.867	0.633	0.467
Sorting	0.133	0.633	-0.200	-0.219	0.441	0.600	0.028	0.453	0.367	0.098	-0.626	0.550	0.583	0.367
Skewness	-0.017	-0.567	0.000	0.585	0.026	-0.633	0.069	-0.178	-0.067	-0.098	0.385	-0.483	-0.533	-0.483
Kurtosis	-0.283	-0.583	-0.033	0.497	0.338	-0.167	0.317	0.340	-0.267	-0.244	-0.177	-0.550	-0.067	0.050
% Fines	-0.150	-0.283	-0.383	0.760	0.610	-0.517	0.083	0.470	0.133	-0.456	-0.076	-0.450	-0.433	-0.450
% Sands	-0.183	-0.800	-0.050	0.424	-0.234	-0.517	0.193	-0.437	-0.717	-0.114	0.296	-0.767	-0.417	-0.350
% Gravel	0.200	0.883	0.167	-0.497	0.182	0.600	-0.303	0.243	0.683	0.309	-0.405	0.867	0.550	0.333
Total Organic Carbon (% dwt)	0.715	0.459	-0.136	-0.413	-0.043	0.579	-0.009	-0.702	-0.340	0.395	-0.265	0.596	0.493	0.136
Total Organic Matter (% w/w)	0.362	0.872	0.165	-0.775	-0.105	0.823	-0.131	-0.007	0.444	0.495	-0.346	0.954	0.724	0.559
Moisture Content (%)	0.065	-0.309	-0.358	0.095	-0.128	-0.293	0.049	-0.336	-0.716	-0.463	0.432	-0.440	-0.423	-0.293
Carbonate content	0.424	0.892	0.044	-0.769	-0.083	0.892	-0.084	-0.109	0.307	0.509	-0.475	0.965	0.804	0.541
Total Oil (mg.kg-1)	-0.233	-0.517	-0.100	0.804	0.610	-0.700	-0.220	0.146	-0.333	-0.667	0.212	-0.717	-0.667	-0.633
Total n alkanes (ng.g-1)	-0.700	-0.767	0.500	0.760	0.402	-0.733	-0.440	0.146	-0.267	-0.684	0.111	-0.833	-0.617	-0.533
Carbon Preference Index		0.550	-0.700	-0.292	0.026	0.400	0.344	-0.437	-0.150	0.456	0.101	0.550	0.267	0.067
P/B Ratio			-0.200	-0.599	0.117	0.733	-0.083	0.000	0.433	0.505	-0.358	0.950	0.650	0.350
Proportion of Alkanes (%)				-0.044	0.000	-0.067	-0.633	0.130	0.133	-0.260	-0.158	-0.117	-0.017	0.067
Total PAHs (ug.kg-1)					0.634	-0.775	-0.241	0.033	-0.219	-0.547	-0.073	-0.716	-0.614	-0.789
NPD PAHs (ng.g-1)						-0.156	-0.465	0.123	0.013	-0.344	-0.530	-0.039	-0.065	-0.493
Arsenic (mg.kg-1)							0.248	0.000	0.200	0.651	-0.668	0.850	0.950	0.767
Cadmium as Cd								0.218	0.069	0.520	0.258	0.028	0.234	0.537
Chromium as Cr									0.745	-0.051	-0.030	-0.032	0.032	0.405
Copper as Cu										0.293	-0.130	0.433	0.233	0.383
Lead as Pb											-0.240	0.602	0.716	0.586
Mercury as Hg												-0.401	-0.816	-0.158
Nickel as Ni													0.767	0.517
Vanadium as V														0.700
Zinc as Zn														
Aluminium as Al														
Barium as Ba														
Iron as Fe														
Lithium as Li														
Titanium as Ti														

Spearman's Correlation Coefficient (Two-tailed)	
Number of Data Points	9
p=0.05, 95% Significant	0.700
p=0.01, 99% Significant	0.833
p=0.001, 99.9% Significant	0.933

	Aluminium as Al	Barium as Ba	Iron as Fe	Lithium as Li	Titanium as Ti
Water Depth (m)	-0.589	-0.381	-0.710	-0.866	-0.710
Mean (mm)	0.583	0.567	0.767	0.833	0.617
Sorting	0.733	0.683	0.650	0.617	0.500
Skewness	-0.517	-0.850	-0.517	-0.350	-0.150
Kurtosis	-0.050	-0.067	-0.133	-0.333	-0.233
% Fines	-0.100	-0.300	-0.017	-0.250	0.283
% Sands	-0.800	-0.583	-0.800	-0.867	-0.767
% Gravel	0.667	0.500	0.783	0.900	0.750
Total Organic Carbon (% dwt)	0.374	0.187	-0.238	0.476	-0.323
Total Organic Matter (% w/w)	0.724	0.642	0.592	0.889	0.395
Moisture Content (%)	-0.260	0.065	-0.537	-0.619	-0.619
Carbonate content	0.731	0.672	0.512	0.862	0.292
Total Oil (mg.kg-1)	-0.400	-0.367	-0.250	-0.567	-0.050
Total n alkanes (ng.g-1)	-0.567	-0.567	-0.083	-0.533	0.033
Carbon Preference Index	0.367	0.250	-0.367	0.283	-0.300
P/B Ratio	0.650	0.617	0.500	0.783	0.433
Proportion of Alkanes (%)	-0.100	-0.083	0.483	0.150	0.333
Total PAHs (ug.kg-1)	-0.541	-0.775	-0.307	-0.468	0.073
NPD PAHs (ng.g-1)	0.104	-0.182	0.221	0.221	0.454
Arsenic (mg.kg-1)	0.733	0.783	0.417	0.717	0.067
Cadmium as Cd	0.151	0.248	-0.317	-0.179	-0.440
Chromium as Cr	0.308	0.308	0.664	0.162	0.599
Copper as Cu	0.383	0.233	0.750	0.533	0.817
Lead as Pb	0.163	0.309	0.049	0.293	-0.081
Mercury as Hg	-0.370	-0.158	-0.464	-0.549	-0.476
Nickel as Ni	0.733	0.633	0.483	0.867	0.350
Vanadium as V	0.583	0.617	0.433	0.667	0.133
Zinc as Zn	0.600	0.783	0.433	0.417	0.000
Aluminium as Al		0.767	0.550	0.833	0.333
Barium as Ba			0.500	0.500	0.083
Iron as Fe				0.683	0.850
Lithium as Li					0.600
Titanium as Ti					