

BIO MEDIA-GREEN

Pollutant Removal Performance Summary

Test Run	pH		TSS (mg/L)		TKN (mg/L)		Dissolved Phosphorus (mg/L)		Ortho Phosphorus (mg/L)		Dissolved Cadmium (mg/L)		Dissolved Copper (mg/L)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	7.07	7.21	73	17							0.584	0.48	0.951	0.34
2	7.13	9.49	52	15			3.81	0.46			0.503	0.01	0.906	0.009
3	7.13	9.53	52	13			3.81	0.39			0.503	0.006	0.906	0.005
4	8.65	8.65	100	3	10.4	8.29	1.37	0.68	3.98	3.13	0.302	0.192	0.354	0.115
5	8.65	8.7	100	5	10.4	8.64	1.37	0.75	3.98	2.15	0.302	0.193	0.354	0.119
6	8.65	8.69	100	1	10.4	10.9	1.37	0.72	3.98	2.2	0.302	0.206	0.354	0.13
7	8.65	8.69	100	6	10.4	10.1	1.37	0.69	3.98	2.11	0.302	0.203	0.354	0.11
8	8.65	8.69	100	2	10.4	7.4	1.37	0.7	3.98	2.04	0.302	0.193	0.354	0.117
Averages	8.0725	8.70625	84.63	12.40	10.40	9.07	2.07	0.63	3.98	2.33	0.39	0.19	0.57	0.12
Average Removal Efficiency (%)			85.35%		12.83%		69.66%		41.56%		52.16%		79.15%	

Using Sil-Co-Sil 106

Mean particle size = 19 microns

Test Run	Dissolved Lead (mg/L)		Dissolved Zinc (mg/L)		Dissolved Mercury (mg/L)		Oil & Grease (mg/L)		TPH (mg/L)		Turbidity (NTU)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	0.201	0.015	1.33	0.93	0.009	0.002	360	11				
2	0.192	0.005	1.32	0.05	0.006	0.002	67	1				
3	0.192	0.005	1.32	0.05	0.006	0.002	67	1				
4	0.492	0.008	0.4	0.06	n/d	n/d	13	7	1.4	0	36	0.2
5	0.492	0.007	0.4	0.06	n/d	n/d	13	3	1.4	0	36	0.5
6	0.492	0.005	0.4	0.05	n/d	n/d	13	7	1.4	0	36	0.2
7	0.492	0.005	0.4	0.05	n/d	n/d	13	10	1.4	0	36	0.5
8	0.492	0.005	0.4	0.05	n/d	n/d	13	12	1.4	0	36	0.2
Averages	0.38	0.01	0.75	0.16	0.01	0.00	69.88	6.50	1.40	0.00	36.00	0.32
Average Removal Efficiency (%)	98.19%		78.22%		71.43%		90.70%		100.00%		99.11%	

Test Run	Total Coliform (MPN/100 mL)		Fecal Coliform (MPN/100 mL)	
	Influent	Effluent	Influent	Effluent
1	1600000	1600000	1250000	500000
2	1600000	500000	1250000	300000
3	1600000	500000	1250000	300000
4	1600000	900000	1250000	500000
Averages	1600000	875000	1250000	400000
Average Removal Efficiency (%)	45.31%		68.00%	

*Laboratory Testing - Average Removal Efficiencies. Tested at Flow Rate of 3 GPM Per Square Foot Media Surface Area & Minimum Head.

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