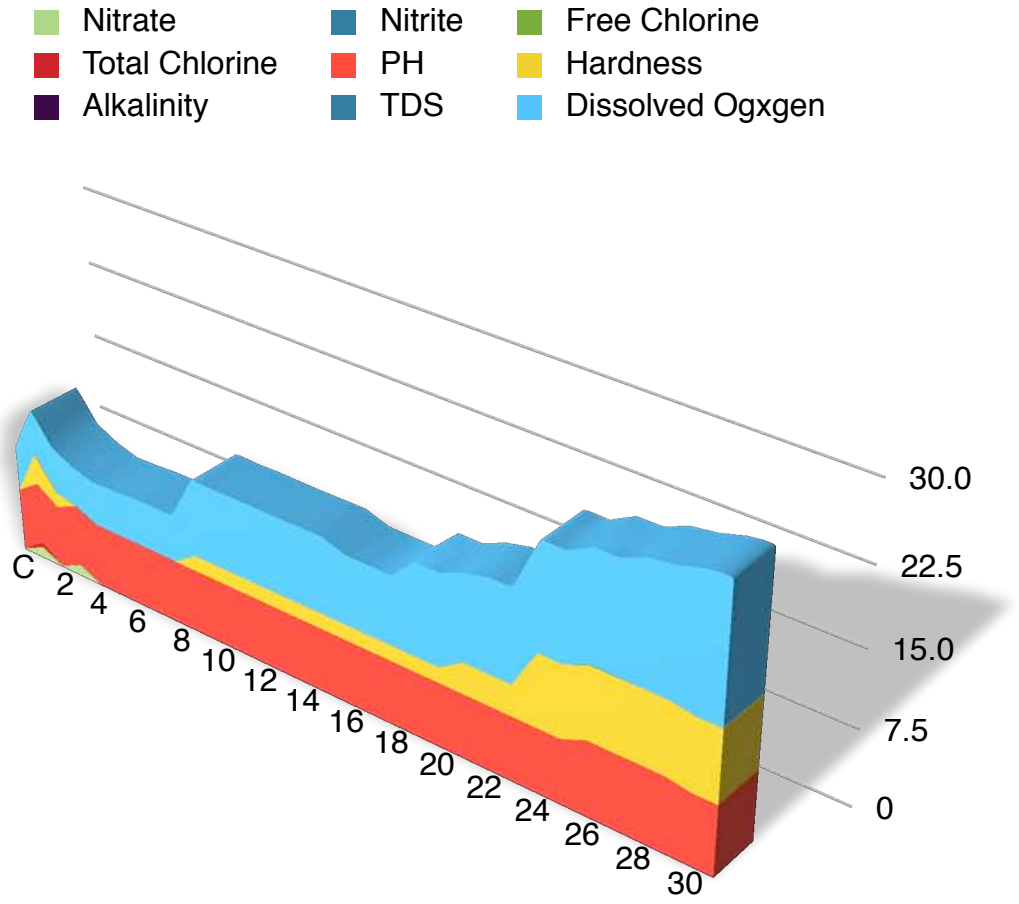
Hydrologix Research

Test Report

Plocherkat Treatment of Hawaii Rain Catchment System

The purpose of this test was to evaluate the effectiveness of the Plocherkat on Rain Catchment Systems and the degree it can correct undesired water parameters. The Test was carried out on a 10,000 gallon water catchment system on a private property near Kona, Hawaii. The following measurements where taken between January 1. and 31. 2006. Also 4 samples where airmailed to our lab for microbial analysis as well as confirmation of on site measurements. A control sample (C) was also obtained. Rain was recorded on day 26, 27 and 28. The catchment tank is a 10,000 gallon congregated steel tank with PVC lining and a common polymash cover. On day 22 well water via a water truck was added to the tank due to low water levels.

The graph below shows a compilation of all onsite data obtained



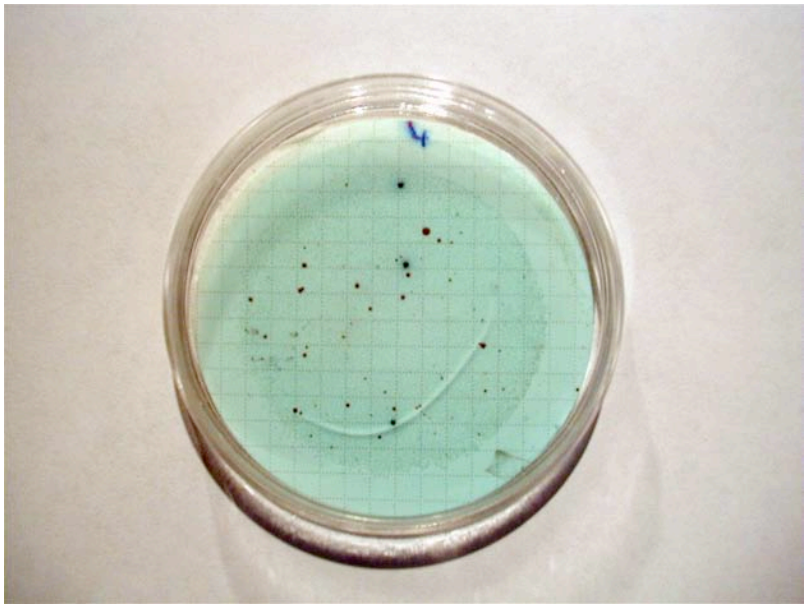
These table show the actual measured values:

Day	C	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Nitra	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Nitri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FCl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCl	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
PH	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Hard ness	0	3	1.5	0	0	0	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5
Alka-linity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDS	0.02	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0	0	0.01	0.01
DO	4.51	4.43	4.57	4	4.34	4.41	4.57	4.6	4.67	7.5	7.48	7.56	7.53	7.5	7.54

Day	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Nitra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FCl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PH	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.2	7.2	7.2	7.2
Hard ness	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	7	7	7	7	7	7
Alka-linity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDS	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.06	0.01	0.01
DO	7.55	6.81	6.77	6.76	8.94	8.94	8.42	8.96	9.1	10.2	10.24	10.42	10.45	11.45	11.81

Microbial Testing

Total Coliform and Fecal E-coli Testing



	Control	Day 1	Day 15	Day 30
Total Coliform	65	45	32	23
Fecal E.coli	30	2	2	0

This tests clearly indicates the Plocherkat's ability to considerably reduce harmful and pathogenic bacterial contamination introduced by animal waste into the catchment tank.

The image above shows the Control Plate count prior to the installation of the Plocherkat. Red and blue colonies are the total coliforms, where blue colonies indicate E. coli.

Important Note:

Coliforms are indigenous to tropical areas eg Hawaii

The Plocherkat clearly demonstrates the reduction of fecal e-coli.