45. The method of any one of claims 43 or 44, wherein allowing the farmed organisms to grow increases the mass of the farmed organisms by at least about 0.7 times the mass of the at least one additional feed provided from the start of the first predetermined period to the end of the third predetermined period.

46. An aquaculture system capable of performing the method of any one of the preceding claims, the system comprising:

(A) an aquatic environment comprising at least one farmed organism, phytoplankton and bacteria, and/or means to provide such an environment;

(B) at least one phytoplankton nutrient providing means for providing at least one phytoplankton nutrient to the aquatic environment;

(C) at least one phytoplankton nutrient sensing means for sensing at least one phytoplankton nutrient concentration in the aquatic environment;

(D) at least one bacteria nutrient providing means for providing at least one bacteria nutrient to the aquatic environment;

(E) at least one bacteria adding means for adding at least one bacteria to the aquatic environment;

(F) at least one bacteria nutrient sensing means for sensing at least one bacteria nutrient concentration in the aquatic environment.

(G) at least one phytoplankton nutrient maintaining means operatively coupled to at least one phytoplankton nutrient providing means and/or at least one phytoplankton nutrient sensing means to maintain the phytoplankton nutrient at a concentration suitable to grow phytoplankton; and

(H) at least one bacteria nutrient concentration maintaining means operatively coupled to at least one bacteria nutrient providing means and/or at least one bacteria nutrient sensing means to maintain the bacteria nutrient at a concentration suitable to grow bacteria, wherein:

the phytoplankton and bacteria are allowed to grow in a first predetermined phytoplankton:bacteria ratio of:

more than 1 during the first predetermined period;

the phytoplankton and bacteria are allowed to grow in a second predetermined phytoplankton:bacteria ratio during the second predetermined period, wherein the second predetermined phytoplankton:bacteria ratio is lower than the first predetermined phytoplankton:bacteria ratio; and

the phytoplankton and bacteria are allowed to grow in a third predetermined phytoplankton:bacteria ratio during the third predetermined period,

wherein the third predetermined phytoplankton:bacteria ratio is lower than the second predetermined phytoplankton:bacteria ratio.

47. The aquaculture system of claim 46, further comprising :

(I) at least one phytoplankton sensing means for sensing the concentration of the phytoplankton allowed to grow;

(J) at least one bacteria sensing means for sensing the concentration of the bacteria allowed to grow;

(K) at least one phytoplankton nutrient concentration maintaining means operatively coupled to at least one phytoplankton nutrient providing means and/or at least one phytoplankton sensing means to prevent further provision of phytoplankton nutrient when the concentration of the phytoplankton allowed to grow reaches a first predetermined concentration, until the concentration of the phytoplankton allowed to grow falls below the first predetermined concentration; and

(L) at least one bacteria nutrient concentration maintaining means operatively coupled to at least one bacteria nutrient providing means and/or at least one bacteria sensing means to prevent further provision of bacteria nutrient and/or further adding of bacteria when the concentration of the bacteria allowed to grow reaches a second predetermined concentration, until the concentration of the bacteria allowed to grow falls below the second predetermined concentration.

48. The aquaculture system of claim 47, wherein the at least one phytoplankton sensing means comprises apparatus for obtaining a Secchi disk visibility reading for the aquatic environment, and wherein the phytoplankton nutrient providing means provides no further phytoplankton nutrient when the aquatic environment Secchi disk visibility is less than about 30 cm, and resumes providing phytoplankton nutrient when the aquatic environment Secchi disk visibility increases to more than about 30 cm.

49. The aquaculture system of claim 47, wherein the at least one bacteria sensing means comprises an apparatus for measuring dissolved oxygen in the aquatic environment, and wherein the bacteria nutrient providing means provides no further bacteria nutrient when the dissolved oxygen in the aquatic environment is less than about 3.5 mg/L, and resumes providing bacteria nutrient when the dissolved oxygen in the aquatic environment increases to more than about 3.5 mg/L.