

August 14, 2007

To: ETAAC Members  
From: Bill Coleman, Planktos Inc.  
Re: 'Game Changing Ideas' Supporting California AB 32

Planktos Inc. is a California based eco-restoration company dedicated to carbon capture and sequestration via new forests on land and renewed plankton productivity on the open ocean. As others have conveyed to the Committee, CCS technologies such as the ones Planktos employs will play a large role as nations strive to slow the pace of climate change.

Restoring forest communities on land and phytoplankton communities in the open ocean will transfer millions of tons of atmospheric CO<sub>2</sub> to long term storage in biomass. Forests accomplish this task over a period of decades – costing about \$10/ton – while plankton communities export similar volumes to the deep ocean in a matter of months – at less than \$5/ton.

In addition, there are extraordinary collateral benefits associated with improvements in water quality, species richness, provision of edible protein, and support for local economies.

Tightly written performance standards will ensure that biological CCS contributes real, additional, verifiable, permanent, enforceable and transparent GHG offsets. Such standards will be based on well developed carbon metrics and related accounting principles. These will in turn be based on decades-old science describing terrestrial and marine ecology, forestry and oceanography.

In the case of ocean biomass sequestration, Planktos builds on scientific work born in California (Moss Landing Marine Labs, Monterey Bay Research Institute), supported by 10 international research teams and over \$100 million invested by the National Science Foundation since 1993. These efforts have conclusively shown that ocean enrichment works at small scales.

In a series of pilot projects beginning later this year, Planktos will demonstrate that these same techniques can be applied at meso-scale, leading to reversal of rapidly declining ocean ecosystem health, as well as sequestration of millions of tons of atmospheric CO<sub>2</sub> for centuries or millennia.

Specific standards for achieving real-to-transparent performance will be recommended by Planktos in concert with two well known certification agents endorsed by the California Climate Action Registry. This follows a lengthy effort to build a support among international scientists, NGOs and government bodies, recently leading to an opportunity to work cooperatively with USEPA to assess Planktos' technology during its upcoming pilot projects.

Mr. Chairman, we believe our plan to bring high quality, low cost, ecologically beneficial GHG offsets to California qualifies as a 'game changing idea'. Whether on September 6<sup>th</sup>, or at another time and place convenient to Committee members, we look forward to presenting a more detailed account of our technology, the underlying science, as well as the potential benefits that can accrue from successful ocean CCS results returned to California.