

BLUE GREEN & FILAMENTOUS ALGAE REMOVAL CASE STUDY

Project: On-site Pond Restoration

Date: May 5, 2009

Contaminants: Blue Green Algae and Filamentous Algae / Eutrophication

Project Description:

In Spring 2009 LBSI was asked to clean a pond covering approximately 650,000 acre feet and had a fountain in the middle for water circulation. This pond was surrounded by 656 condominiums. The pond was suffering from eutrophication and was overgrown with toxic algae, making it aesthetically unpleasing and malodorous.

The pond was treated with Lambda's proprietary consortium. Within 10 – 14 days there was visible observation that the toxic algae was being degraded, while restoring the good algae that ponds need. In addition, the pond water was gaining more clarity each day. Within several weeks, the toxic algae had started to be degraded and consumed by the microbes.

The following photographs show the progression of the remediation process over a period of several weeks.



May 2, 2009.
Initial pond site to be remediated



May 19, 2009 –
Bottom of pond clearly visible.



May 25, 2009
Bottom of pond clearly visible



May 30, 2009
Toxic algae breaking up and floating
towards shore line, exposing debris in
bottom of pond.



June 30, 2009 – Decomposing toxic algae
floating to top of pond at 8 weeks. With
photosynthesis, this disappears as well,
while good algae remains & thrives.



Pond site after remediation
12 weeks after treatment
(July 2009)